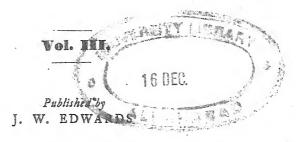
SYLLOGE FUNGORUM

OMNIUM HUCUSQUE COGNITORUM.

DIGESSIT

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PATAVII

XV DECEMBRIS MIDCCCLXXXIV
SUMPTIBUS AUCTORIS
TYPIS SEMINARII



SPHÆROPSIDEÆ Lév. reform.*)

Sacc. Mich. I. 133 et II. p. 3.

Sphæropsideæ, Phyllosticteæ et Cytisporaceæ Fr. (excl. gen.). — Sphæropsideæ et Sphæronemeæ Kx. — Sphæronemeæ Berk. — Sphæronemeæ, Sporocadeæ, Phragmotrichaceæ, Sphæriaceæ etc. Corda p. p. — Perisporiaceæ, Thyreomycetes, Excipulinæ, Nemasporeæ, Sporocadeæ etc. Bon. p. p. — Excipuleæ, Pilidieæ, Actinothyrieæ, Sphæronemeæ etc. Payer p. p.

Fungi perithecio instructi, ascis carentes, sporulasque **) (stylosporas et spermatia auctorum) intra perithecium basidiis plus vel minus manifestis suffultas gerentes.

Fam. 1. Sphærioideæ Sacc.

Perithecia membranacea, carbonacea v. subcoriacea, atra (numquam carnosula, læticoloria) globosa, conica v. lenticularia, integra (h. e. non dimidiata), immersa v. superficialia.

Sect. 1. Hyalosporæ Sacc.

Sporulæ globosæ, ovoideæ v. suboblongæ, rectæ v. curvulæ (allantoideæ) continuæ, hyalinæ.

^{*)} Rationes, quæ suadent fungos inferiores, nempe Sphæropsideos, Melanconieos et Hyphomycetes in libro proprio pleneque pertractare, jam exposui in Mich. II. p. 2. omnesque fere mycologi in hac re nunc consentiunt. Horum consilio fretus improbum laborem aggredior, hoc saltem sperans quod, post editam Syllogen, numerus duplicatarum specierum, quo scientia obruitur, in posterum valde diminui possit.

^{**)} Quum limes nullus certus sit inter spermatium, stylosporam v. clinosporam Sphæropsidearum, nomen simplex et jamdudum, etsi subinde alio sensu, adhibitum sporula pro cohorte tota sine distinctione usurpavi. Hine hujuscemodi Fungorum organa sic distinguenda puto:

Spora, asco carens, in fungis perfectis: Hymenomyceteis, Gasteromyceteis, Phalloideis, Myxomyceteis, Ustilagineis.

Sporidium, asco inclusum, in fungis perfectis: Ascomyceteis.

Sporula, asco carens, in fungis imperfectis perithecigeris: Sphæropsideis.

Conidium, asco carens, in fungis imperfectis sine perithecio: Melanconieis et ${\tt Hyphomyceteis}$.

Quoad Uredineas et Phycomyceteas, generationibus variis pollentes, varia quoque sporarum nomina jam usurpata sunt, quæ servanda.

Clavis analytica generum.

§ Simplices (peritheciis discretis).

† Perithecia inermia, calva.

- * Perithecia areolis plantarum decoloratis innata, h. e. maculicola.
- Phyllosticta. Perithecia punctiformia, lenticularia, poro pertusa.
 - ** Perithecia non maculicola.
 - X) Sporulæ solitariæ (non concatenatæ).
 - A) Sporulæ muticæ.
 - a) Subiculum nullum.
 - α) Perithecia mutica v. papillata (non rostrata).
- Phoma. Perithecia membranacea v. subcoriacea, papillata, subcutanea; basidia monospora, sæpe brevissima.
- Aposphæria. Perithecia Phomæ, sed superficialia, subcarbonacea, exquisitius papillata.
- Dendrophoma. Perithecia calva $Phom\alpha$, sed basidia ramulosa v. denticulata, pleiospora.
- Asteromella. Perithecia minuta in maculas asteromatoideas dendriticas dense disposita.
- Piptostomum. Perithecia carbonacea, globosa, demum superne circumscissa; nucleo celluloso-lobato (Transit ad Compositas).
- Crocicreas. Perithecia superficialia, turbinata, carnoso-cornea, floccoso-fibrosa: basidia ramosa.
- Pyrenotrichum. Perithecia superficialia, vertice demum circumseissa; basidia exquisite circinata.
- Sclerotiopsis. Perithecia immersa, astoma, subcarnosula, sclerotiformia; basidia filiformia, 1-spora; sporulæ utrinque e latere acutæ.
- Plenodomus. Perithecia semiimmersa, irregulariter dehiscentia, tuberculosa, sclerotioidea, intus subcarnosula; sporulæ utrinque obtusæ; basidia brevissima.
- Mycogala. Perithecia superficialia astoma obtusa, dein irregulariter lacerata; nucleo mox pulveraceo; sporulæ globulosæ.
 - β) Perithecia rostellata.
- Spheronæma. Perithecia rostrata; sporulæ plerumque ad apicem rostri in globulum denique expulsa.
 - b) Subiculum præsens.
- Chatophoma. Perithecia Phoma, sed subiculo fumagineo v. asterineo innata; sporula ovoideo-oblouga.
- Asteroma. Perithecia minuta, conferta, fibrillis sæpius radiantibus atris adnata vel imposita; sporulæ ovoideo-oblongæ. (In plurimis fructificatio ignota).
- $\it Ypsilonia$. Perithecia minuta subiculo asteromatoideo fusco imposita; sporulæ elongatæ 3-radiatæ.
- Cicinnobolus. Perithecia minima, elongata, versiformia, subiculo oidico (proprio?) innata; sporulæ ovoideæ cirrose expulsæ.

B) Sporæ ciliatæ.

Neottiospora. Sporulæ ovato-fusoideæ, apice penicillato-setosæ.

XX) Sporulæ concatenatæ.

Sirococcus. Perithecia subcarbonacea, erumpentia v. superficialia, ostiolo obsoleto; sporulæ in catenulas subsimplices digestæ.

Peckia. Perithecia Sirococci (spuria?); sporulæ catenulatæ, reticulatim connexæ v. muco obvolutæ.

++ Perithecia aculeata v. setosa.

Muricularia. Perithecia aculeolis continuis simplicibus obsita; sporulæ oblongæ, sublobatæ.

Staurochæta. Perithecia aculeolis apice stellatis obsita; sporulæ ovoideæ.

Pyrenochwia. Perithecia erumpentia v. superficialia, setulis breviusculis variis ubique v. basi v. apice vestita; sporulæ oblongæ; basidia typice ramulosa. (Cfr. Chwiomella inter Phwosporas).

Vermicularia. Perithecia setis longis erectis septatis vestita; sporulæ fusoideæ falcatæ, raro rectæ, basidia typice simplicia.

§§ Compositæ v. cæspitosæ (peritheciis stromate adnatis v. immersis).

Dothiorella. Stroma basilare; perithecia botryose aggregata, erumpentia; sporulæ oblongæ.

Rabenhorstia. Stroma globoso-truncatum, intus locellatum; sporulæ ovoideooblongæ, stipitatæ.

Fuckelia. Stroma globoso-pulvinatum, substipitatum, intus in locellos angulosos pallidiores (Tuberis ad instar) ubique partitum.

Placospharia. Stroma applanatum, effusum, piceum, intus plus minusve distincte plurilocellatum, pallidius.

Fusicoccum. Stroma valseum v. verruciforme, molliusculum, intus inæqualiter multiloculare; sporulæ fusoideæ v. bacillares proportione majusculæ.

Cytosporella. Stroma valseum v. verruciforme, molliusculum intus inæqualiter pluriloculare; sporulæ globosæ v. ovoideæ, continuæ, subhyalinæ.

Cytospora. Stroma valseum v. verruciforme, molliusculum, intus inæqualiter multiloculare; sporulæ allantoideæ.

Ceuthospora. Stroma conico-truncatum, carbonaceum, intus typice pluriloculare; sporulæ bacillares.

PHYLLOSTICTA Pers. in Fr. S. M. II. 257, Sacc. Mich. II. p. 4. (Etym. phyllon folium et stictos punctatus). — Perithecia epidermide velata, lenticularia, tenuiter membranacea, poro sæpius amplo pertusa, punctiformia, areolas foliorum raro ramulorum decoloratas incolentia. Sporulæ exiguæ ovoideæ v. oblongæ, continuæ, hyalinæ v. chlorinæ; basidia minima v. nulla.

1. Phyllosticta æsculina Sacc. F. Gallici Ser. VI. n. 2261. — Ma- 1 culis amphigenis arescendo ochraceis, variis; peritheciis punctifor-

I. In plantis dicotyledoneis arboreis.

mibus, vix $^{1}/_{10}$ mill. d., atris; sporulis ellipsoideis, hyalinis, $9 \approx 3$; basidiis obsoletis.

Hab. in foliis adhuc vivis Æsculi Hippocastani, prope Rouen in Gallia (Letendre). — A Ph. æsculicola differt præcipue sporulis duplo majoribus.

Phyllosticta Paviæ Desm. 14 Not. 32, Kickx Fl. Flandr. I. 515. 2
 — Maculis indeterminatis, rufo-fuligineis, late flavido-marginatis; peritheciis epiphyllis, exiguis, sparsis vel confertis, nigricantibus, convexis dein depressis; sporulis cylindraceo-ellipticis, 2-guttatis 11-12 μ. longis.

Hab. in foliis Paviæ macrostachyæ, in Gallia et Belgio.

Phyllosticta æsculicola Sacc. Mich. I. p. 134. — Maculis vagis 3 irregularibus, arescendo candidis, fusco-cinctis, epiphyllis v. petiolicolis; peritheciis punctiformibus, sparsis; sporulis tenuissimis, oblongis v. breve fusoideis, 4 ≈ 3/4, hyalinis.

Hab. in foliis petiolisque Æsculi Hippocastani, in Italia boreali. — Depazea æsculicola Fr. sec. auct. est Septoria. Quid sit Ascochyla Hippocastani Lib. exs. n. 151, ignoro. Phyllosticia Paviæ Desm. omnino aliena est.

4. Phyllosticta Laurocerasi Sacc. et Speg. Mich. I. p. 153. — Maculis 4 obsoletis v. subcircularibus candicantibus; peritheciis sæpe subconcentrice dispositis, punctiformibus, prominulis, olivaceo-fuscis; sporulis oblongo-cylindraceis, utrinque rotundatis, raro ad medium subconstrictis, 8-10 ≈ 3-4, sæpe 2-guttulatis, hyalinis.

Hat. in foliis dejectis Pruni Laurocerasi, Treviso, Conegliano, Aquileja in Ital. bor.

5. Phyllosticta cerasella Speg. Fung. Arg. Pug. III. n. 94. — Ma-5 culis nullis; peritheciis hypophyllis, minutis, 110-120, ostiolo impresso pertusis, membranaceis, contextu laxe parenchymatico, olivaceo; sporulis ellipticis v. elliptico-cylindraceis, medio non v. subconstrictis, rarius 1-septatis, granuloso-farctis v. guttulatis, 8-12 ≈ 3-4, hyalinis.

Hab. ad folia dejecta putrescentia Pruni Cerasi, in hortis prope la Recoleta in Argentina.

6. Phyllosticta serotina Cooke Grev. XII. pag. 26. — Amphigena; 6 maculis orbicularibus, fuscis, linea obscuriore limitatis; peritheciis sparsis, punctiformibus minutis; sporulis elliptico-lanceolatis, hyalinis 12 ≥ 3.

Hab. in foliis Cerasi serotinæ, in Carolina austr. (RAVENEL).
7. Phyllosticta prunicola (Opiz?) Sacc. Mich. I. p. 157, Depazea pru-7

nicola Opiz? — Maculis subcircularibus epiphyllis, arescendo sordide brunneis v. ochraceis, margine subconcolore; peritheciis sparsis, punctiformibus, pertusis; sporulis ovoideis v. ellipsoideis, $5 \approx 3$, e hyalino olivaceis.

Hab. in pag. sup. foliorum Pruni domesticæ, P. Cerasi nec non Piri Mali, Aquileja, Plezzo, Belluno, in Italia bor. — Forma in Malo ad Leptosphæriam Pomonam Sacc., tamquam

spermogonium, pertinere videtur.

8. Phyllosticta Mahaleb Thum Contr. Mycol. Lusit. — Peritheciis 8 dense gregariis, epiphyllis, globuloso-punctiformibus, semiimmersis, nigris, parvulis, in macula orbiculari v. orbiculari-sinuosa, arescendo cinerescente, anguste et obscurius cincta; sporulis ovato-ellipsoideis, utrinque rotundatis, enucleatis, achrois v. pallidissime griseolis, $4-5 \approx 2-2.5$.

Hab. in foliis vivis Pruni Mahaleb, Coimbra in Lusitania,

in horto botanico (Moller).

9. Phyllosticta Mespili Sacc. Mich. I. p. 159. — Maculis subcircula- 9 ribus, arescendo ochraceis, rufo-cinctis; peritheciis sparsis, punctiformibus, lenticularibus, pertusis, laxe cellulosis, lutescentibus; sporulis oblongis, utrinque rotundatis, $4 \approx 3$, olivaceis.

Hab. in foliis Mespili germanicæ, Selva et Cusignana in

Italia boreali.

10. Phyllosticta Cydoniæ (Desm.) Sacc., Cheilaria Cydoniæ Desm. 10 14 Not. p. 26. — Maculis amphigenis, brunneis, rotundatis vel irregularibus 3-5 mill. diam.; peritheciis epiphyllis, minutissimis, numerosis, innato-prominulis, nigris, rima (α epidermica? n) dehiscentibus; cirris albidis; sporulis minutis, cylindricis, rectis vel curvulis, 4-guttulatis, 10 μ. longis.

Hab. in foliis languescentibus Cydoniæ, in Gallia.

11. Phyllosticta Eriobotryæ Thum. Contr. Fr. mic. Lit. n. 215, tab. I. 11 fig. 7. — Peritheciis epiphyllis, mediis, globosis, prominulis, gregariis, atris in maculis aridis, plus minusve orbiculatis, fusco-griseis, nigro-annulatis, demum corrosis; sporulis ellipsoideis, enucleatis, dilute fusco-griseis, 4-6 = 3.

Hab. in foliis vivis Eriobotryæ japonicæ, Gorizia in Ital. bor. — Ph. Photiniæ Thüm. proxima sed diversa.

12. Phyllosticta chenomelina Thum. Contr. Fung. Litor. n. 216, 12 tab. I. fig. 4. — Peritheciis mediis, epiphyllis vel raro etiam amphigenis, sparsis, subprominulis, conicis, ostiolatis, atris in macula irregulari, albescente, subtus fusca, exarida; sporulis ovatis,

simplicibus, utrinque subrotundatis, pallidissime cinereis, diaphanis, 5×2 .

Hab. ad Chænomeles (Pyri) japonicæ folia viva, Gorizia in Italia boreali.

13. Phyllosticta? Cratægi (Cooke) Sacc., Cheilaria Cratægi Cooke 13 Grev. XII. p. 25. - Hypophylla; peritheciis sparsis, minutissimis, applanatis, superne in lacinias 3-4 («epidermicas»?) apertis; sporulis ovoideis hyalinis, $3 \approx 1.5$.

Hab. in foliis Cratægi, in Carolina australi Americ. bor. (RAVENEL).

- 14. Phyllosticta sanguinea (Desm.) Sacc., Depasea sanguinea Desm. 14 8 Not. p. 14. — Maculis suborbiculatis brunneis, linea obscuriore cinctis, ambitu sanguineis; peritheciis sparsis epiphyllis, subrotundis, nigro-nitidis; sporulis ovatis, biguttulatis, hyalinis, 8 v. long. Hab. in foliis emortuis Pruni Padi, in Gallia.
- 15. Phyllosticta circumscissa Cooke Grev. XI. 150. Amphigena; 15 maculis orbicularibus, rufo-fuscis, demum delapsis; peritheciis paucis, minutis, innatis; sporulis ellipticis $8 \approx 2$.

Hab. in foliis Pruni Armeniacæ et Cerasi, in Australia merid. — Vulgo dicitur «Shot-hole fungus» et valde est noxius.

16. Phyllosticta cerasicola Speg. F. Argent. Pug. III. n. 93. - Ma- 16 culis subnullis; peritheciis epiphyllis, densiuscule sparsis, minutis, 80-90 \(\mu\). diam., atris, tenuissime membranaceis, contextu parenchymatico, olivaceo; sporulis cylindraceis, utrinque obtusissime rotundatis et l-guttulatis, minutis, $4 \approx 1$, hyalinis.

Hab. ad folia putrescentia Pruni Cerasi, in hortis prope la Recoleta in Argentina.

17. Phyllosticta cratægicola Sacc., Ph. Cratægi Speg. Mich. I. 483. 17 - Maculis subrotundis, griseis; peritheciis parenchymate innatis, minutissimis, 60-80 \(\rho^*\) diam., contextu laxe parenchymatico-atro; sporulis hyalinis, minutissimis, ellipticis v. ellipsoideis, biguttulatis, $2^{1}/_{2}-3 \approx 1-1^{1}/_{2}$.

Hab. in foliis Cratægi Oxyacanthæ, Belluno in Italia bor., rarius.

18. Phyllosticta photinica Sacc. Mich. I. p. 156, 276. — Maculis sub- 18 circularibus irregularibusve ephiphyllis, arescendo candidis, atrorufo-marginatis; peritheciis remote sparsis, e globoso lenticularibus, 60-70 μ. diam., latiuscule pertusis, contextu validiusculo; sporulis minutissimis ovoideo-oblongis, $2-3^{1}/_{2} = 3/_{4}-1$, eguttulatis, e hyalino olivaceis.

Hab. in foliis Photiniæ serrulatæ, Selva in Ital. bor.

19. Phyllosticta Photiniæ Thüm. Fung. Litor. n. 218, t. I. f. 5. — 19 Peritheciis minutis, epiphyllis, semiprominulis, sparsis, globosis, nigris in maculis orbiculatis, albo-griseis, exaridis, determinatis; sporulis minimis, cylindrico-ovatis, utrinque rotundatis, hyalinis, simplicibus, $5 \approx 2-3$.

Hab. ad folia viva Photiniæ serrulatæ, Gorizia in Ital. bor. 20. Phyllosticta photinicola Sacc. Mich. I. p. 157. — Maculis vagis ²⁰ majusculis, arescendo candicantibus, rufo-marginatis; peritheciis remotiusculis, punctiformibus lenticularibus, 140-150 μ. diam., latiuscule pertusis, contextu laxiuscule celluloso subochraceo; sporulis ovoideis, 5-6 ≈ 3-3½, dilute fuligineis.

Hab. in pag. sup. foliorum Photiniæ serrulatæ, Selva in Italia boreali.

21. Phyllosticta punica Sacc. et Speg. Mich. I. p. 156. — Maculis 21 parvis epiphyllis, subcircularibus sinuosis, arescendo candicantibus, rufo-marginatis; peritheciis punctiformibus, sparsis, lenticularibus, 80-140 μ . diam., pertusis, contextu parenchymatico densiusculo fuligineo; sporulis ellipsoideis, $6-7 \approx 3$, dilute olivaceis.

Hab. in foliis Punicæ Granati, Conegliano in Ital. bor.

22. Phyllosticta Pirorum Cooke Grev. XII. pag. 26. — Epiphylla; 22 maculis dealbatis, magnis, semi vel totam paginam occupantibus, linea purpurea determinatis; peritheciis sparsis, convexis, atris; sporulis linearibus, rectis vel subcurvulis, hyalinis, 10 = 2.

Hab. in foliis Pirorum, in Carolina austr. (RAVENEL).

23. Phyllosticta pirina Sacc. Mich. I. p. 134. — Maculis arescendo can-23 dicantibus, variis; peritheciis plerumque epiphyllis, punctiformibus, lenticularibus, pertusis, $100-130~\mu$. diam., contextu laxe celluloso ferrugineo; sporulis ovoideis v. ellipsoideis, $4-5 \approx 2-2^{1}/_{2}$, hyalinis.

Hab. in foliis Piri communis socia Sphærella Bellona Sacc. nec non in foliis Piri Mali, in Italia bor., Gallia et Lusitania.
— Secundum Kickx Flandr. I, 432, Depazea pirina Riess est Se-

ptoria Piri West. seu Sept. piricola Desm.

4. Phyllosticta piricola Sacc. et Speg. Mich. I. p. 153. — Maculis 24 obsoletis; peritheciis inordinate sparsis, lentiformibus, prominulis, hypophyllis, 150 μ . diam., atris; sporulis ovoideis v. ovoideo-oblongis, $2-2^1/2 \approx ^3/4-1$, hyalinis.

Hab. in foliis dejectis Piri communis, Conegliano in Italia boreali.

25. Phyllosticta Aucupariæ Thum. Beitr. Pilz. Sib. n. 611. — Peri- 25

theciis sparsis v. subgregariis, epiphyllis, submagnis, conico-hemisphæricis, basi epidermide subcinctis, semiimmersis, atris in macula plus minusve orbiculata, arescendo cinerea, late irregulariter fusco-cincta; sporulis ellipticis, utrinque rotundatis, simplicibus, griseis $5-8 \approx 3$.

Hab. ad folia viva Sorbi Aucupariæ, Minussinsk in Sibiria.

26. Phyllosticta Sorbi West. Bull. Ac. Belg. II. Ser. XII. n. 7. — 26 Maculis subcircularibus, sparsis v. confluentibus, cinerascentibus, atro-purpureo-marginatis; peritheciis punctiformibus, atris, in centro maculæ sitis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis, 10 ≈ 5.

Hab. in pagina superiore foliorum Sorbi Aucupariæ et domesticæ, in Belgio et Lusitania.

27. Phyllosticta Persicæ Sacc. Mich. I. p. 147. — Maculis subcircula- 27 ribus, arescendo dilute fuligineis, sanguineo-marginatis, quandoque concentrice subzonatis; peritheciis remotiusculis, punctiformibus, lenticulari-conoideis, prominulis, $80-100~\mu$. diam., pertusis, laxiuscule cellulosis, lutescenti-fuligineis; sporulis oblongis, interdum curvulis, $6-7 \approx 3 \frac{1}{2}-4$, 2-guttulatis, hyalinis.

Hab. in pag. super. foliorum Persicæ vulgaris, Selva in . Ital. bor., et Coimbra in Lusitania.

28. Phyllosticta fuscozonata Thüm. Contr. Fl. mic. Lit. n. 331. — 28 Peritheciis epiphyllis, sparsis, mediis, fuscis, lenticularibus in macula magna, irregulari v. subsinuosa, sordide fusca, griseo-fusco-multizonata, indistincte ferrugineo-cincta; sporulis cylindrico-oblongis, utrinque rotundatis, rectis, plerumque biguttulatis, hyalinis, 7-9 ≈ 3,5-4.

Hab. ad folia viva Rubi Idæi, Plezzo in agro Goritiensi.

29. Phyllosticta rubicola Rabh. F. E. n. 1757, Depazea areolata 29 Sacc. Myc. Ven. p. 192, an Fuck. — Maculis subcircularibus parvis, arescendo dealbatis, sanguineo-marginatis; peritheciis punctiformibus, paucis; sporulis e globoso ovoideis, 3 = 2, e hyalino olivaceis.

Hab. in pag. sup. foliorum Rubi cæsii, in silva Montello in Ital. bor. et Germania.

30. Phyllosticta Ruborum Sacc. Mich. II. p. 342. — Maculis epiphyllis, 30 minutis candicantibus, sæpius prope nervos; peritheciis paucis punctiformibus, lenticularibus, $^{1}/_{10}$ mill. diam.; sporulis tereti-oblongis, biguttulatis, $5 \approx 1^{1}/_{2}$, hyalinis.

Hab. in foliis languidis Rubi fruticosi vel affinis, Rouen in Gallia (Letendre). — A Phyll. rubicola Rabh. omnino diversa.

nn Gaina (Leterore).

31. Phyllosticta Rosæ Desm. Exs. n. 687, Ser. II. Kickx Fl. I. 416. 31

— Peritheciis epiphyllis, perexiguis, semiimmersis, nigris, globulosis, sparsis; maculis subcircularibus viridescentibus, dein fuscis v. subcinereis, purpureo-cinctis; sporulis cylindraceo-obtusis, 3-4-guttulatis; cirris albidis.

Hab. in foliis Rosarum cultarum in Gallia et Belgio.

32. Phyllosticta nuptialis Thum. Contr. Myc. Lusit. — Peritheciis 32 sparsis, epi- rarissime etiam hypophyllis, conico-šemiimmersis, primo epidermide tectis, dein liberis et cito elabentibus, nigris, interdum confluentibus, in macula plus minusve orbiculata, arescendo ochraceo-albida, violaceo late cincta, in pagina foliorum inferiore fusca; sporulis minutissimis, subglobosis v. ovoideis, hyalinis, enucleatis, 2-2,5 ≈ 1,5.

Hab. in foliis vivis Myrti communis, Matta do Rangel

prope Coimbra in Lusitania (Moller).

33. Phyllosticta Eucalypti Thum. Contr. Fl. Lusit. n. 374. — Peri- 33 theciis epiphyllis, gregariis, minutis, punctiformibus, leniter emersis, nitido-atris, ostiolo centrali, in macula maxima, irregulari primo opace sordido-fusca, demum exarescente-albicante, anguste purpureo-cincta, subtus sordide brunnea; sporulis numerosis, continuis, breve ellipsoideis, utrinque rotundatulis, achrois, 4 = 1,5, rectis, enucleatis.

Hab. in foliis vivis languidisve Eucalypti Globuli, in silvis Matta de Valle de Canas prope Coimbra in Lusitania (Moller).

34. Phyllosticta Myricæ Cooke in Rav. Fung. Amer. n. 154 et in 34 Grevillea. — Maculis suborbicularibus, rubro-brunneis; peritheciis minimis, tectis, in maculis nidulantibus; sporulis minutis, arcte ovalibus, hyalinis 7 µ. longis:

Hab. in foliis Myricæ ceriferæ, Aiken in Amer. bor.

35. Phyllosticta Calycanthi Sacc. et Speg. Mich. I. p. 139. — Ma- 35 culis versiformibus, arescendo candicantibus; peritheciis amphigenis, lenticularibus, 150 μ . diam., latiuscule pertusis, contextu laxe celluloso, subochraceo; sporulis ellipsoideis, $7-9 \approx 5-6$, hyalinis.

Hab. in foliis Calycanthi præcocis, Conegliano in Ita-

lia boreali.

36. Phyllosticta Siliquastri Sacc. et Speg. Mich. I. p. 148. — Maculis 36 versiformibus, arescendo rufescentibus; peritheciis amphigenis, sparsis, prominulis, umbilicatis, anguste pertusis, 120-150 y. diam., ex

olivaceo luteolis; sporulis ovoideis oblongisve, obtusiusculis, 6-7 \approx 3-4, 2-guttulatis, hyalinis.

Hab. in foliis Cercidis Siliquastri, Susegana in Italia bor, et Coimbra in Lusitania.

37. Phyllosticta Robiniæ Sacc. Mich. I. p. 146. — Maculis vagis ir-37 regularibus rufescentibus, margine subconcolori; peritheciis punctiformibus raris; sporulis ovoideis, $4 \approx 3$, granulosis, hyalinis.

Hab. in foliis Robiniæ Pseudacaciæ, Selva, Conegliano in Ital. bor. — Huc Ascochyta Robiniæ Sacc. Myc. Ven. p. 195 non Lib. quæ ad Septoriam Robiniæ West. spectat.

38. Phyllosticta laburnicola Sacc. Mich. I. p. 152. — Maculis nullis; 38 peritheciis hinc inde congregatis, lenticularibus, 60-70 μ. diam. pertusis; sporulis oblongo-cylindraceis, 3-5 = 1, hyalinis.

Hab. in pag. infer. foliorum Cytisi Laburni, Selva in Italia boreali.

39. Phyllosticta cytisella Sacc. Mich. I. p. 137. — Maculis epiphyl- 39 lis, angulosis, arescendo dealbatis, fusco-cinctis; peritheciis punctiformibus, sparsis, pertusis; sporulis ex oblongo ovoideis, 5 = 3, eguttulatis, hyalinis.

Hab. in foliis Cytisi nigricantis in silva Montello Italiæ 40 bor. — Habitu, forma et colore maculæ a Ph. Cytisi Desm. differt.

40. Phyllosticta Cytisi Desm. Not. XIV. (1847) p. 34, Mich. I. p. 146.

— Maculis arescendo fuscidulis, subcircularibus, vix marginatis; peritheciis sparsis, punctiformibus; sporulis ovoideo-oblongis, 6 ≈ 3-4, sæpe curvulis, utrinque rotundatis 1-guttulatisque, hyalinis.

Hab. in foliis Cytisi Laburni, in Gallia, Italia, Britannia, Austria et Belgio.

41. Phyllosticta gallarum Thüm. Beitr. Pilz fl. Sibir. n. 612. — Pe-41 ritheciis epi- interdum etiam hypophyllis, dense gregariis, submagnis, conico-emersis, basi epidermide lacerata cinctis, atris in macula plus minusve orbiculata, arescendo albicante. fusco-cincta semper gallarum Cynipidearum os ambiens v. in folii pagina inferiore in gallæ gibbere positis; sporulis ellipsoideis, interdum inæquilateralibus, simplicibus, pallidissime fuligineis, rarissimis, 5-6 = 3-5.

 ${\it Hab}.$ ad folia viva Caraganæ arborescentis, prope Minussinsk in Sibiria.

42. Phyllosticta Borszczowii Thum. Beitr. Pilz. Sibir. n. 805. — Pe- 42 ritheciis dense gregariis, hypophyllis, raro amphigenis, punctiformibus, hemisphærico-prominulis, liberis, nitido-atris in macula ob-

soleta v. in partibus subexaridis decoloratisve foliorum; sporulis numerosis, minutissimis, simplicibus, enucleatis, ellipticis, utrinque rotundatis, hyalinis, $3 \approx 1.5$.

Hab. ad folia viva Caraganæ arborescentis, in lapidosis

prope Maidaschi in Sibiria.

43. Phyllosticta Kennedyæ Winter Cont. Myc. Lus. n. 800. — Macu- 43 lis irregularibus, sæpe confluentibus, plerumque marginalibus, fuscescenti-pallidis, demum albescentibus exaridisque, fusco-cinctis; peritheciis hypophyllis, sparsis, lenticularibus, poro pertusis, fuscis, $96-105~\mu$. lat.; sporulis ellipticis, continuis, hyalinis $7-9 \approx 3.5$.

Hab. ad folia viva Kennedvæ ovatæ, Coimbra in Lusi-

tania, in horto botanico.

44. Phyllosticta australis Speg. Fung. Arg. Pug. II. n. 119. — Ma-44 culis nullis v. griseo-arescentibus, indeterminatis; peritheciis atrofuligineis, lenticularibus, 100-120 μ. diam., contextu fuligineo, parenchymatice; sporulis ellipticis, utrinque acuminato-rotundatis, biguttulatis, 8-10 ≈ 3-4, hyalinis.

Hab. in foliis dejectis Erythrinæ Cristæ-galli, in pa-

ludosis cerca de la Recoleta in Argentina.

45. Phyllosticta Glycines Thum. Contr. Fl. myc. Lusit. — Perithe- 45 ciis epiphyllis, pro ratione magnis, sparsis, lenticulari-applanatis, aterrimis in macula magna, irregulari, arescendo ferrugineo-ochracea; sporulis ellipticis, utrinque truncato-rotundatis, plerumque binucleatis, rectis, achrois, 6 ≈ 2,5.

Hab. in foliis vivis Glycines violaceæ, Choupal prope

Coimbra in Lusitania (Moller).

46. Phyllosticta Wistariæ Sacc. Fungi Gallici Ser. VI. n. 2258. — 46. Maculis irregularibus amphigenis, ochraceis; peritheciis gregariis lentiformibus, pertusis, $\frac{1}{6}$ mill. diam., tenui-membranaceis; sporulis oblongis, deorsum acutioribus, 2-guttatis, 8-10 \approx 3-3,5; basidiis acicularibus $15 \approx 1,5$.

Hab. in foliis Wistariæ sinensis, Saintes in Gallia (Bru-NAUD). — Ob basidia Phomæ accedit, cetera vero Phyllostictæ.

47. Phyllosticta Bauhiniæ Cooke Grev. XII. pag. 26. — Epiphylla; 47 maculis irregularibus, fuscis; peritheciis minutis, sparsis, punctiformibus, atris; sporulis ellipticis, hyalinis, 7,5 ≈ 2.

Hab. in foliis Bawhiniæ, Caraccas in Venezuela.

48. Phyllosticta Ceratoniæ Berk. in Welw. F. Portug. pag. 8. — 48 Maculis nigro-limitatis, irregularibus; sporulis minutis anguste ellipticis, hyalinis.

Hab. in foliis Ceratoniæ Siliquæ, Arrabida et Coimbra in Lusitania.

49. Phyllosticta ocellata Pass. et Beltr. F. Sic. n. 23. — Maculis par- 49 vis, ocellatis, subrotundis, exaridis, albis, margine elevato et areola lutescentibus circumdatis; peritheciis punctiformibus, epidermide velatis, dein ostiolo minutissimo atro erumpentibus; sporulis minutissimis, bacteriformibus, medio non constrictis $2\frac{1}{2}$ μ . longis.

Hab. ad folia languida Citri Limonum, Monostalla in Si-

cilia. - Phyll. Platanoidis affinis.

50. Phyllosticta marginalis Penz. Mich. II. p. 425. — Maculis albis, 50 aridis, irregularibus, brunneo-cinctis; peritheciis majusculis 300-360 μ. diam., in macularum margine insidentibus, amphigenis, hypodermeis, paullum depressis, aterrimis; sporulis cylindraceis, utrinque rotundatis eguttulatis, hyalinis, 2,5-3,5 ≈ 0,8-1,5.

Hab. in foliis vivis Citri medicæ L. (var.), in frigidario r. horti botanici Patavini.

51. Phyllosticta micrococcoides Penz. Mich. II. p. 426. — Maculis 51 atro-brunneis, nebulosis, irregularibus; peritheciis hypophyllis, dense gregariis, 90-110 μ . diam., prominulis, sphæroideis, contextu parenchymatico; sporulis hyalinis, subglobosis, minimis, 1-1,5 \approx 0,7-1, eguttulatis.

Hab. in foliis junioribus, quæ enecat, Citrorum socia Septo-

ria Tibia Penz., Strå prope Padova, in Ital. bor.

52. Phyllosticta Hesperidearum (Catt.) Penz. Mich. II. png. 425. — 52 Phoma Hesperidearum Catt. Mic. Agrumi p. 10. — Maculis orbicularibus vel sinuosis irregularibus, brunneis, dein fulvis, cinereis vel albicantibus, exaridis, totam folii substantiam penetrantibus, in ambitu brunneo-purpureis; peritheciis perexiguis, innato-prominulis, nigris, ore orbiculari, amplo apertis; sporulis ellipticis, utrinque rotundatis, hyalinis, 3-4 ≈ 2-2,5.

Hab. in foliis vivis Hesperidearum, Pavia (CATTANEO), S. Terenzo prope Spezia (GIBELLI), Strà prope Padova (Penzig).

53. Phyllosticta disciformis Penz. Mich. II. p. 424. Phoma Hesperidearum Sacc. in Michelia VII. p. 274 (non Cattaneo). — Maculis cinereo-albescentibus, orbicularibus vel irregularibus, linea fusco-atra cinctis; peritheciis sparsis vel laxe gregariis, minutissimis, punctiformibus, hypodermicis, 120 µ. diam., brunneis, tenuibus, contextu parenchymatico; sporulis ellipticis, utrinque rotundatis, hyalinis, eguttulatis, 4-6 ≈ 2-3.

Hab. in foliis vivis Citri Limonum, Padova (SACCARDO), Bo-

logna (Gibelli), Atalantiæ buxifoliæ et Limoniæ australis, Cattajo prope Padova (Penzie).

54. Phyllosticta Beltranii Penz. in Mich. II. pag. 423 et F. ital. n. 54 1153. — Maculis obsoletis; peritheciis hypophyllis dense gregariis, minimis, 80-90 μ . diam., depressis, hypodermicis, demum erumpentibus, atris; sporulis minutissimis, 2,5-3 \approx 0,7-1, cylindricis, apice rotundatis vel subtruncatis, hyalinis, eguttulatis.

Hab. in nervo mediano foliorum delapsorum Citri Limo-

n um, Carini (Sicilia), ubi legit V. Beltrani.

55. Phyllosticta aurantiicola (B. et C.) Sacc. Sphæropsis aurantii- 55 cola B. et C. On Cuban Fungi, p. 352, n. 564. — Peritheciis gregariis in maculis pallidis sitis, erumpentibus; sporulis clavatis hyalinis, 7 μ. longis.

Hab. in foliis emortuis Citri Aurantii, in Cuba.

56. Phyllosticta Pseudoplatani Sacc. Mich. I. p. 136. — Maculis sinuosis arescendo dealbatis, brunneo-cinctis; peritheciis lenticularibus, 60 μ. diam., laxiuscule ferrugineo-parenchymaticis, pertusis; sporulis oblongis v. breve cylindraceis, 5-6 ≈ 3, eguttulatis, hyalinis.

Hab. in pag. sup. foliorum Aceris Pseudoplatani, Selva

in Ital. bor., et Coimbra in Lusitania.

57. Phyliosticta Platanoidis Sacc. Mich. I. p. 360. — Maculis obsoletis 57 vel subnullis; peritheciis hypophyllis, dense gregariis, hinc inde maculiformiter aggregatis, epidermide velatis, minutissimis, globosis, 70-80 μ . diam., contextu parenchymatico, ostiolo manifesto; sporulis minutissimis, bacteriformibus, medio constrictis, utrinque rotundatis, $2-4 \approx 0.5-1$, hyalinis, eguttulatis.

Hab. in foliis delapsis Aceris Platanoidis, A. Negun-

dinis, in Italia bor. et Gallia.

58. Phyliosticta Negundinis Sacc. et Speg. Mich. I. p. 149. — Maculis 58 variis arescendo fulvo-rufescentibus; peritheciis sparsis punctiformibus, lenticularibus, $100-120~\mu$. diam., latiuscule pertusis, contextu laxiuscule parenchymatico, dilute fuligineo; sporulis ellipsoideis, $6-7 \approx 3-4$, obsolete 2-guttulatis, hyalinis.

Hab. in foliis Negundis fraxinifoliæ, Conegliano in Ita-

lia boreali.

59. Phyllosticta fallax Sacc. et Roum. Mich. II. p. 620. — Perithe-59 ciis in maculis minutis dealbatis sparse innatis, epiphyllis, lenticularibus, pertusis 100 μ . diam.; sporulis oblongo-ellipsoideis, 5-6 $\approx 3-3^{1}/4$, chlorinis.

Hab. in foliis Aceris Pseudoplatani, in Gallia et Ger-

mania. — A Phyllosticta Pseudoplatani Sacc. sporulis chlorinis mox dignoscitur.

60. Phyllosticta acericola C. et E. in Grev. VIII. p. 11. — Epiphyl- 60 la; maculis pallidis, purpureo-cinctis; peritheciis punctiformibus, dispersis; sporulis ovatis, hyalinis 8 ≈ 5.

Hab. in foliis Acerum, New Jersey in Am. bor. (ELLIS).

61. Phyllosticta Aceris Sacc. Mich. I. p. 147, Ascochyta Aceris Sacc. 61 Mycol. Ven. 194, non Libert, quæ sec. auctores est Septoria Aceris (Lib.) B. et Br. — Maculis subcircularibus arescendo ochraceis, majusculis; peritheciis punctiformibus, lenticularibus, pertusis, atris; sporulis ovoideis v. oblongo-ovoideis, $5 \approx 2^1/2-3$, 2-guttulatis, hyalinis.

Hab. in foliis Aceris campestris, Vittorio in Ital. bor. — Ascochyta Aceris Fuck. Symb. 387 est Cheilaria Aceris Lib. Exs.

n. 255, seu Didymosporium Aceris Desm.

62. Phyllosticta Rhamni West. Not. V. 26. Phyll. Frangulæ Kx. 62 Fland. I. 418. — Maculis vagis, subochraceis, fusco-cinctis; peritheciis sparsis, v. in centro maculæ gregariis, punctiformibus, pertusis; sporulis oblongis ovoideisve, $5-6 \approx 3-3^1/2$, e hyalino olivaceis.

Hab. in foliis Rhamni Frangulæ et Alaterni, in Belgio, Italia, Lusitania. — Sporulæ in Kx. 1. c. hyalinæ indicantur, et

2-guttulatæ, sed ab ætate pendere potest.

63. Phyllosticta rhamnigena Sacc. Mich. I. p. 156. — Maculis sub-63 circularibus arescendo sordide albis, fusco-marginatis; peritheciis epiphyllis dense gregariis punctiformibus, prominulis, atris; sporulis ovoideo-oblongis, 4½-5 ≈ 3, 2-guttulatis, fuscidulo-olivaceis.

Hab. in foliis Rhamni cathartici et Alaterni, in Italia, Gallia, Lusitania. — A Phyll. Rhamni West. præcipue maculæ

natura differt.

64. Phyliosticta rhamnicola Desm. 14 Not. pag. 32. — Maculis am-64 phigenis, albidis vel cinereis, orbiculatis, sparsis confluentibusque, dein evanidis; peritheciis hypophyllis, minutis, numerosis, nigris, nitidis, prominulis, subglobosis, dein collabascendo concavis; sporulis exilissimis, subcylindricis, utrinque obtusis, 6 μ. longis.

Hab. in foliis emortuis Rhamni alpini, in Gallia et Belgio.

65. Phyllosticta Cathartici Sacc. Mich. I. p. 146. — Maculis subcir-65 cularibus, arescendo ochraceis, fusco-rufo-marginatis; peritheciis punctiformibus, lenticularibus pertusis; sporulis ovato-fusoideis, $10 \approx 4$, 2-guttulatis, hyalinis.

Hab. in pag. sup. foliorum Rhamni cathartici, Selva in Ital.

bor. — Ab hac *Phyllosticta Rhamni* West, differt sporulis multo minoribus, nempe $5 \approx 3$; *Phyllosticta rhamnicola* (Lasch) Desm. sporulis cylindraceis 7 long. recedit. Huc e contra spectat *Depazea rhamnicola* Sacc. Mycol. Ven. 192 et probabiliter Fuck. Symb. 380 (in Rhamno cathart.) non Laschii, quæ diversam *Phyllostictam rhamnicolam* Desm. sistit.

66. Phyllosticta Frangulæ West. Exs. n. 958 Kickx Fl. crypt. Fl. I. 66
418. — Peritheciis epiphyllis, perexiguis, fusco-nigris, 10-15 in
macula subrotunda, brunnea dein cinerea, vinoso-marginata sitis;
sporulis ovoideis, obtusis, 2-guttulatis.

Hab, in foliis Rhamni Frangulæ, in Belgio.

67. Phyllosticta Zizyphi Thum. Contr. Myc. Lusitan. — Peritheciis 67 epiphyllis, numerosis, punctiformibus, gregariis, minutissimis, atris in macula sinuosa, arescendo griseo-ochracea, late fusco-marginata; sporulis ellipsoideis, utrinque rotundato-obtusatis, rectis vel paullulo arcuatis, grosse biguttulatis, achrois, 6 = 2,5-3.

Hab. ad folia viva Zizyphi vulgaris, Coimbra in Lusita-

nia, in horto botanico (Moller).

68. Phyllosticta Evonymi Sacc. Mich. I. p. 155. — Maculis minutis 68 angulosis, arescendo candidis, brunneo-cinctis; peritheciis sparsis, punctiformibus, 100 μ . diam., lenticularibus, pertusis; sporulis oblongis, sæpius inæquilateralibus, utrinque obtusis, $4-5 \approx 3^{1}/_{2}-4$, obsolete 2-guttulatis, chlorinis.

Hab. in foliis Evonymi europæi, Vittorio in Italia boreali,

et in Gallia.

69. Phyllosticta pustulosa S. et R. in Revue mycol. — Maculis ple-69 rumque epiphyllis elevatis variis, initio rufescentibus, dein centro dealbatis; peritheciis sparsis, punctiformibus, ½ mill. diam., sporulis obovatis, 4 = 2, hyalinis.

Hab, in foliis Evonymi japonici, in Algeria.

70. Phyllosticta Bolleana Sacc. Ph. Evonymi Thum. Contr. Mic. Lit. 70 n. 220, f. 20 (non Sacc.). — Peritheciis sparsis, mediis, epiphyllis, semiimmersis, globosis, nigris in macula exarida, irregulari, albogrisea, anguste fusco-marginata; sporulis parvis, ellipsoideis, utrinque rotundatis, pallidissime griseis, $4-5 \approx 2-2.5$.

Hab. ad folia viva Evonymi japonici, Gorizia.

71. Phyllosticta evonymella Sacc. Mich. I. 138. Sphæria Evonymi 71 Kunze in Fr. S. M. II. p. 439. — Maculis minutis, angulosis, ex olivaceo expallentibus; peritheciis dense gregariis, punctiformibus, globulosis, latiuscule pertusis, prominulis, solidiusculis; sporulis

tenuissimis, cylindraceis, rectiusculis, utrinque rotundatis, $4 \approx \frac{1}{2} - \frac{3}{4}$, hyalinis,

Hab. in foliis Evonymi europæi, Vittorio in Ital. bor., et in Germania et Gallia, socia Ph. Evonymi Sacc., a qua longe differt.

72. Phyllosticta nemoralis Sacc. Mich. II. p. 83. — Maculis indeter- 72 minatis, expallentibus; peritheciis dense gregariis, amphigenis, punctiformibus, $100-140~\mu$. diam.; sporulis ovoideis, $7-8 \approx 2-2\frac{1}{4}$, 2-guttulatis, hyalinis.

Hab. in foliis Evonymi europæi, Saintes in Gallia (BRUNAUD).

A Ph. Evonymi Sacc. et Ph. evonymella Sacc. probe diversa.

73. Phyllosticta aliena (Fr.) Sacc. Mich. II. p. 342, Sphæria et Pe-73 risporium alienum Fr. S. M. III, 252, II. 502. — Macula elongata expallente; peritheciis emerso-innatis, confertis, minimis, globosis, nigris, 80-90 μ . diam., poro pertusis; sporulis oblongo-ovatis, 7-8 \approx 3,5, hyalinis.

Hab. in ramulis subvivis Evonymi europæi, in Gallia (Моисвот).

74. Phyllosticta tineola Sacc. Mich. I. p. 531. — Maculis amphige- 74 nis, vagis, ochraceis; peritheciis sparsis, globoso-lenticularibus, 70-80 μ. diam., pertusis; sporulis oblongo-cylindraceis, utrinque rotundatis, curvulis, 15 ≈ 3, 2-guttulatis, hyalinis.

Hab. in foliis Viburni Tini, Rouen in Gallia (LETENDRE). — A Ph. tinea Sacc. diversa.

75. Phyllosticta tinea Sacc. Mich. I. p. 135. — Maculis subcirculari- 75 bus v. irregularibus, arescendo dealbatis; peritheciis punctiformibus applanatis, 1/6 mill. diam., pertusis; sporulis minutissimis ex ovato oblongis, 4-5 ≈ 1, hyalinis.

Hab. in pag. sup. foliorum Viburni Tini, Selva in Ital. bor. 76. **Phyllosticta Roumeguérii** Sacc. Mich. II. p. 88. — Maculis vagis, 76 plerumque epiphyllis, arescendo griseis, margine concolori; peritheciis remotis lenticularibus, pertusis, 60-80 μ . diam., contextu tenui-parenchymatico, dilute fuligineo; sporulis ovoideo-clavulatis, $7-8 \approx 3^{1}/_{2}-4$, sepius inequilateralibus, eguttulatis, hyalinis.

Hab. in foliis Viburni Tini, prope Amts in Gallia (Roume-Guère). — A Ph. tinea et Ph. tineola meis diversa.

77. Phyllosticta Opuli Sacc. Mich. I. p. 146. — Maculis angulato-77 sinuosis, arescendo dilute ochraceis, fusco-marginatis; peritheciis punctiformibus, remote sparsis, lenticularibus, 60 μ . diam., pertusis; sporulis oblongis, utrinque rotundatis, l-guttulatisque, $7-7^1/2 \approx 2^1/2$, hyalinis.

Hab. in foliis Viburni Opuli, in silva Montello in Ital. bor.
78. Phyliosticta Rhois West. Bull. Ac. Belg. Ser. II, t. XII. n. 7. — 78
Maculis epiphyllis, minutis, irregularibus, angulosis, internerviis, pallide fuscis, obscurius marginatis; peritheciis raris, in centro maculæ sitis, nigris, tandem subliberis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis, 60 ≈ 3-5.

Hab. in foliis Rhois Cotini, Vlierbeeck in Belgio (Leburton). 79
79. Phyllosticta rhoina Kalch. et Cooke Grev. IX. 20. — Epiphylla; maculis elongatis, fuscis; peritheciis punctiformibus, atro-fuscis, dense congestis; sporulis arcte ellipticis, hyalinis, 5 ≥ 2.

Hab. in foliis Rhois levigatæ, in Africa australi.

80. Phyllosticta Toxicodendri Thum. Fung. American. trig. Sp. n. 80 15. — Maculis parvis, rubro-fuscis irregularibus vel circularibus, atro-rubro-marginatis; peritheciis epiphyllis, sparsis v. solitariis, mediis, hemisphærico-orbiculatis, nigris; sporulis minutissimis, 1,5 ≈ 1, ellipsoideis, hyalinis, eguttulatis.

Hab. in foliis Rhois Toxicodendri, Aiken in Car. Ameri-

ca boreali (RAVENEL).

81. Phyllosticta toxica Ell. et Mart. Amer. Nat. 1882, p. 1002. — 81 Maculis subcircularibus, minutis, cinerescentibus, brunneo-marginatis; peritheciis nigris, epiphyllis, innatis, 70 μ. diam.; sporulis subhyalinis, subglobosis, granulosis, 6-7.5 μ. diam.

Hab. in foliis languidis Rhois Toxicodendri, Decorah,

Jowa (E. W. HOLWAY).

82. Phyliosticta ribicola (Fr.) Sacc. Sphæria (Depazea) ribicola, Fr. 82 S. M. II, p. 530, Curr. Simpl. Sphær. n. 395, f. 153. — Maculis latis lacteis; peritheciis pluribus minimis nigris, pilis longissimis deciduis instructis (?); sporulis oblongis, curvatis, utrinque obtusiusculis 15-17 μ. long., continuis, hyalinis.

Hab. in foliis Ribis rubri, in Suecia etc. — Icon Curreyi

verisimiliter Glæosporium Ribis (Lib.) spectat.

83. Phyllosticta Grossulariæ Sacc. Mich. I. p. 136. — Maculis subcir- 83 cularibus sinuosisve, arescendo griseis albicantibusve, fusco-marginatis; peritheciis punctiformibus sparsis; sporulis ovoideis v. ellipsoideis, 5-6 \approx 3, hyalinis.

Hab. in pag. super. foliorum Ribis Grossulariæ, Selva in Ital. bor. et in Amer. bor. — Huc Depazea ribicola Sacc. Mycol. Ven. p. 192 et forte Fuckelii, non Friesii qui in S. M. II. 530 matricem et characteres alienos affert.

84. Phyllosticta Lauri West. Exs. n. 650. Kx Flandr. I. 417. — Ma- 84

culis sinuosis, fuscis, dein arescendo dealbatis, fusco-cinctis; peritheciis punctiformibus, lenticularibus; sporulis oblongo-ovoideis, $10 \approx 3$, utrinque 1-guttulatis, hyalinis.

Hab. in pag. sup. foliorum Lauri nobilis, in Italia boreali, Belgio et Lusitania.

85. Phyllosticta laurella Sacc. Mich. I. p. 157. — Maculis latis si. 85 nuosis arescendo expallentibus, fusco-cinctis; peritheciis sparsis, punctiformibus, pertusis; sporulis subsphæroideis, minutis, $4 \approx 3$, fuscidulis.

Hab. in foliis Lauri nobilis, Selva in Ital, bor.

86. Phyllosticta nobilis Thum. Contr. F. Litor. n. 328. — Perithe- se ciis epiphyllis, pro ratione magnis, solitariis, hemisphærico-semi-immersis, opaco-nigris in macula irregulari, sordide ochracea, arescenti, linea obscuriore cincta; sporulis numerosissimis, minutissimis, ellipticis, utrinque rotundatis, enucleatis, hyalinis, 2.5-3 = 2.

Hab. in foliis vivis Lauri nobilis, Gorizia. — A Phyllosticta laurella Sacc. et Ph. Lauri Westd. valde diversa.

87. Phyllosticta micropuncta Cooke F. Texas 142. — Epiphylla; pe- 87 ritheciis minutis, atris, congestis; maculis subcircularibus; sporulis minutis, ovatis, hyalinis, 3 u. longis.

Hab. in foliis Perseæ caroliniensis, Houston Texas, in America boreali.

88. Phyllosticta Sassafras Cooke Grev. XII. pag. 26. — Epiphylla; 88 maculis orbicularibus, fuscis; peritheciis numerosis, quandoque circinatis, sparsisve, atris; sporulis elliptico-lanceolatis $7 \approx 1.5~\mu$. hyalinis.

Hab. in foliis Sassafras officinalis, in Carolina australi (RAVENEL).

89. Phyllosticta aromatophila Sacc. Mich. II. p. 276. — Maculis vagis, 89 minutis, arescendo griseis; peritheciis sparsis sublenticularibus, 80–90 μ. diam., poro pertusis; sporulis ellipsoideis 4 = 3, hyalinis.

Hab. in foliis Camphoræ officinarum, in horto Patavino in Ital. bor., vere 1880. — A Phyll. Lauri sporulis dimidio brevioribus differt.

90. Phyllosticta vulgaris Desm. Ann. Sc. nat. 1849, XI. p. 350. Ph. 90 Loniceræ West. (?) Bull. Ac. Brux. 1851, p. 399. — Maculis subcircularibus, olivaceo-rufulis, dein expallentibus, fusco-marginatis; peritheciis epiphyllis, prominulis, perexiguis, globoso-depressis, initio succineis, dein fuscis; sporulis minutis, cylindraceo-ovatis, obtusis, 2-guttulatis, hyalinis, 10-14 \(\times 2,5-3,5\); cirris albidis.

Hab. in foliis languidis Loniceræ Caprifolii, ciliatæ, Periclymeni et Xylostei, in Gallia, Britannia, Italia, Lusitania, Belgio, Germania, Austria, America boreali. — Var. Cerasi: maculis majoribus, sæpius internerviis marginalibusque. — Var. Viburni: maculis magnis, immarginatis, denique plerumque laceratis. — Var. Philadelphi: maculis minutis, confluentibus denique folium totum occupantibus. — In foliis arborum citatarum in Gallia.

91. Phyllosticta Caprifolii (Opiz) Sacc., Depazea Caprifolii Opiz (?), 91 Sacc. Mycol. Ven. p. 193. — Maculis amphigenis, subrotundis, arescendo griseis, fusco-cinctis; peritheciis remotis, punctiformibus; sporulis oblongis, $6-7 \approx 2\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in pag. super. fol. Lonicere Caprifolii, Colfosco et in silva Montello in Ital. bor., socia Sphærella Clymenia Sacc., cujus est spermogonium; nec non in Gallia et in Lonicera Pal-

lasii, in Sibiria.

92. Phyllosticta nitidula Dur. et Mont. Fl. Alg. et Mont. Syll. n. 92 1027. — Epiphylla; maculis amplis, amphigenis, fuscescenti-carneis, zona fusca cinctis; peritheciis minutis, prominulis, sparsis, nitidulis; sporulis atomisticis.

Hab. in foliis Loniceræ implexæ, Alger (Durieu).

93. Phyllosticta Symphoricarpi West. Not. VII. 7. Kx. Flandr. I. 93 419, Mich. I. pag. 148. — Maculis epiphyllis variis atrofuligineis, dein centro cinerascentibus; peritheciis punctiformibus, lenticularibus; sporulis oblongis, 6-7 \(\approx 2\frac{1}{2}\), utrinque rotundatis, hyalinis.

Hab. in foliis Symphoricarpi racemosæ, in Belgio, Italia

et ditione Goritiensi.

94. Phyllosticta sambucicola Kalchbr. Hedw. 1864, p. 73, I. Eur. 94 n. 668. — Maculis sat amplis subangulatis, griseis, purpureo-fusco-marginatis; peritheciis crebris, subprominulis, minutis, fusco-atris; sporulis minutissimis, hyalinis, globosis.

Hab. in foliis Sambuci, in Hungaria.

95. Phyllosticta Sambuci Desm. 14 Not. pag. 34. — Epiphylla; ma. 95 culis candidis, solitariis vel confluentibus in series dispositis; peritheciis innato-prominulis, minutissimis, paucis, fusco-nigris, poro apertis, nucleo albido; sporulis perexiguis, ovoideo-oblongis, biguttulatis, 5-7 μ . long.

Hab. in foliis languescentibus Sambuci Ebuli, nigræ et

racemosæ, in Gallia, Belgio et Britannia.

96. Phyllosticta viticola Sacc. et Sp. Mich. I. p. 153. — Maculis va. 96

gis sinuosis, arescendo candidis, anguste fusco-cinctis, epiphyllis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis ellipsoideis, $5 \approx 2 \frac{1}{2}$ eguttulatis, e hyalino olivaceis.

Hab. in foliis Vitis viniferæ, in agro Tarvisino et Gori-

uensi in Italia boreali.

97. Phyllosticta Labruscæ Thüm. Weinst. Pilz. pag. 189. — Peri- 97 theciis mediis, dense gregariis, numerosis, sine ordine dispositis, epiphyllis, hemisphæricis, prominentibus, atris in macula suborbiculari, distincte limitata, linea brunnea cincta, exarida, rufo-fusca, epiphylla, in pagina inferiore maculam pallidam fuscescentem, indistinctam efficiente; sporulis numerosis, oblongis, regularibus, utrinque rotundatis, diaphanis, episporio tenui, achrois, intus granulosis, 9-11 ≈ 6-7 μ.

Hab. in foliis vivis Vitis Labruscæ, Newfield, New Jersey

in America septentrionali (J. B. Ellis).

98. Phyllosticta Vitis (Fuck.?) Sacc. Mich. I. p. 135.— Maculis vagis, 98 sinuosis arescendo dealbatis, fusco-marginatis; peritheciis remotis, punctiformibus, lenticularibus, 70 μ . diam., pertusis, contextu laxiuscule parenchymatico fuligineo; sporulis oblongo-ovoideis, $6 \approx 3$, 2-guttulatis, hyalinis.

Hab. in pag. sup. foliorum Vitis viniferæ, Casale Monferrato et Selva in Italia boreali. — Phyllosticta Vitis Fuck. et Phyll. Vitum Desm. in Hoffm. Ind. mycol. pag. 96 citatæ, mihi

ignotæ sunt.

99. Phyllosticta viticola Thum. Plze Weinst. p. 188 (1878) Septoria 99 viticola Berk. sec. Ravenel. — Maculis magnis, subcircularibus, subtus fuscis, supra fusco-purpureis, limitatis; peritheciis amphigenis sed sæpius hypophyllis, paucis, minutis, globosis; sporulis breve ellipsoideis, 1-guttatis, 8-9 \(\preceq 4\), hyalinis.

Hab. in foliis vivis Vitis vulpinæ, Aiken in Carolina au-

strali (H. W. RAVENEL).

100. Phyllosticta hedericola Dur. et Mont. Syll. 279, Mich. I. p. 137. 100 Ph. destructiva f. Hederæ Oudem. — Maculis epiphyllis, subcircularibus, arescendo dealbatis, latiuscule fusco-marginatis; peritheciis punctiformibus, prominulis, pertusis; sporulis oblongis, $6 \approx 2^{1}/_{2}$, 2-guttulatis, hyalinis.

Hab. in foliis Hederæ Helicis, in Italia, Gallia, Algeria,

Austria.

101. Phyllosticta Hederæ Sacc. et Roum. Mich. II. pag. 620. — Pe- 101 ritheciis epiphyllis, late et dense gregariis (in partibus arescenti-

bus), lenticularibus, 130 μ . diam., pertusis; sporulis minutissimis, oblongis, $4\approx 1$, hyalinis.

Hab. in foliis Hederæ Helicis socia Phoma cylindrospora, in Gallia et Belgio.

102. Phyllosticta concentrica Sacc. Fungi Veneti Ser. V. 203. — 102 Maculis latis, subcircularibus, arescendo expallentibus; peritheciis plerumque concentrice dispositis, lenticularibus 90-100 μ . diam., atris, poro amplo hiantibus, membranaceis; sporulis globosis v. ovoideis, $10 \approx 8-9$, minute pluriguttulatis, hyalinis.

Hab. in foliis Hederæ Helicis, Padova in Ital. bor.

103. Phyllosticta cornicola (DC.) Rabh. in Kl. Herb. myc. n. 454, 103 Depazea cornicola DC. An huc Phyll. Corni West., Kx Flandr. I. 419? — Maculis epiphyllis majusculis, atrosanguineis, dein centro expallentibus; peritheciis paucis punctiformibus, lenticularibus, pertusis, 150-200 μ . diam.; sporulis oblongo-ellipsoideis, 7-9 \approx 3-4, utrinque acutiusculis, 2-guttulatis, hyalinis.

Hab. in foliis Corni sanguineæ, sericeæ et paniculatæ, in Italia. Gallia, Sibiria, Amer. bor.

104. Phyllosticta Corni West. in Kickx Crypt. Fl. I. 419. — Ma- $_{104}$ culis angulosis, fusco-nigrescentibus, dein centro albis; peritheciis sparsis, paucis (3-6), punctiformibus, nigris, epiphyllis, $10 \approx 5$.

Hab. in foliis Corni albæ, in Belgio (Westendorp).

105. Phyllosticta insulana Mont. Pl. Cell. VII. Cent. n. 14. — Hypo- 105 phylla, maculis folio decolorato pallidis, lineola brunnea tenuissima flexuosa cinctis; peritheciis minutissimis, atris, confluentibus; sporulis atomisticis, 6 4. longis.

Hab. in foliis Olem Europem, circa Montaud-lès-Miramas

in Gallia (Castagne). — Maculæ 1,5-5 mill. diam.

106. Phyllosticta fraxinicola Curr. Simpl. Sphær. n. 388. f. 148 (sub 106 Depazea). — Maculis subcircularibus v. irregularibus, fuscis, atromarginatis; peritheciis minutis, nigris; sporulis ellipticis v. subturbinatis v. subcymbiformibus, 5-7,5 p. longis.

Hab. in foliis Fraxini, in Germania et Gallia.

107. Phyllosticta Ligustri Sacc. Mich. I. p. 134. — Maculis are- 107 scendo expallentibus, variis fusco-cinctis; peritheciis epiphyllis, lenticularibus, pertusis, 60 μ. diam.; sporulis ovoideis, 6-7 = 21/2-3, 2-guttatis, hyalinis, initio basidiis æquilongis suffultis.

Hab. in foliis Ligustri vulgaris, Selva, Susegana in Italia boreali et Coimbra in Lusitania. — Depazea Ligustri Desm. est = Septoria Ligustri Desm., ergo non Phyllosticta mea. Utra-



que verisimiliter sistit spermogonia Spherreller Ligustri (Desm.) Fuck.

108. Phyllosticta ligustrina Sacc. et Speg. Mich. I. p. 160. — Maculis 108 versiformibus, arescendo sordide lutescentibus: peritheciis gregariis, olivaceo-fuscis, lenticularibus; 150-200 p. diam., pertusis; sporulis globoso-ovoideis, 4-6 \u2223-4, pallide olivaceis.

Hab. in foliis Ligustri vulgaris, Costa (Vittorio) in Italia boreali.

109. Phyllosticta Syringæ West. Not. II. 23, Kickx. Flandr. f. 417. 109

— Maculis amplis arescendo ochraceis, irregularibus, sæpius fusco-marginatis; peritheciis punctiformibus epiphyllis, lenticularibus, pertusis; sporulis ovato-oblongis, 8 ≈ 3, 2-guttulatis, hyalinis.

Hab. in foliis Syringæ vulgaris, in Italia, Gallia, Belgio, Lusitania. — Cl. Oudemans hanc ut formam Phyll. destructivæ Desm. considerat, sed hæc secundum Desm. sporulas 1-2-septa-

tas, $10 \approx 5$ gerit.

110. Phyllosticta jasminica Thüm. Contr. Mycol. Lusit. — Peri- 110 theciis epiphyllis, minutis, sparsis, emerso-punctiformibus, nigris, in macula arescendo luteo-albida, irregulari, plerumque marginali, late zonata, fusco-purpureo cineta, subtus totu fusca, magna; sporulis paucis, minutissimis, simplicibus, ellipsoideis, enucleatis, hyalinis, 2,5-3 ≈ 1,5.

Hab. in foliis vivis Jasmini azorici, Coimbra in Lusitania, in horto botanico (Moller). — Phyllosticia Jasmini Sacc. in Michelia I. pag. 138 differt maculis diversis, sporulis majoribus et biguttulatis.

111. Phyllosticta Iasmini Sacc. Mich. I. p. 138. — Maculis subcircula- 111 ribus, arescendo candidis, tenuiter ochraceo-marginatis; peritheciis punctiformibus, lenticularibus, sparsis; sporulis oblongis, utrinque acutiusculis, $5 \approx 3$, obsolete 2-guttulatis, hyalinis.

Hab. in foliis Jasmini officinalis, Conegliano in Ital. bor.

112. Phyllosticta goritiensis Sacc. Depazea Phillyreie Thum. Contr. 112 F. Litor. n. 182, t. I. f. 21. — Peritheciis amphigenis, sparsis, prominulis, medio emersis, globosis, nigris in macula exarida, dilacerata, plus minusve orbiculata, fusco marginata: sporulis numerosissimis, cylindraceis, rectis, utrinque rotundato-obtusatis, simplicibus, hyalinis, $3-4 \approx 1-1.5$.

Hab. ad folia viva Phillyreæ angustifoliæ, Gorizia in
 Illyrio italico. - A Depazca phillyreccola Rabh. in Klotzsch,
 Herb. mycol. n. 1646 diversa videtur, teste Thümen.

113. Phyllosticta Phillyreæ Sacc. Mich. I. p. 531. — Maculis epiphyllis, 113 variis, griseo-ochraceis, rufo-marginatis; peritheciis punctiformibus, hemisphæricis, 80-100 μ . diam., pertusis; sporulis oblongo-fusoideis, 6-7 \approx 3, 2-guttulatis, hyalinis.

Hab. in foliis Phillyreæ latifoliæ et mediæ, in Illyrio, in Italia boreali et Gallia.

- 114. Phyllosticta phillyricola Rabenh. Herb. Myc. 1646, Bot. Zeit. 114 1852, p. 287. Peritheciis....; sporulis continuis, hyalinis. Hab. in foliis Phillyreæ.
- 115. Phyllosticta phillyrina Thum. Contr. Myc. Lusitan. Peri- 115 theciis epiphyllis, pro ratione magnis, solitariis, hemisphærico-exsertis, nitido-atris in macula plus minusve orbiculata, parva, ochracea, subexarida, late sordide fusco-marginata; sporulis longe ellipticis, utrinque subrotundatis, enucleatis, hyalinis, 4-5 \(\times 2-2.5\).

Hab. ad folia viva et languida Phillyreæ obliquæ, Serra, da Louza 700 met. alt. in Lusitania (Moller).

116. Phyllosticta Rhododendri West. Bull. Ac. Bruxell. I. 851, p. 116 399. — Maculis rubiginoso-fuscis, ad marginem foliorum plerumque sitis; peritheciis epiphyllis, prominulis, atris; sporulis cylindraceo-ovoideis, 3-4-guttulatis; cirris incarnatis.

Hab. in foliis languidis Rhododendri arborei culti in Belgio et in ditione Goritiensi.

- 117. Phyllosticta Saccardoi Thum. Contr. Myc. Lusit. Ph. Rhododen-117 dri Sacc. in Mich. I. pag. 531 non Ph. Rhododendri Westd. Maculis epiphyllis, variis, fusco-marginatis; peritheciis paucis, punctiformibus, subvelatis, subhemisphæricis, 50 μ . diam., pertusis, contextu fulvo-ochraceo; sporulis perexiguis, oblongo-cylindraceis, $4 \approx 1$, hyalinis.
- Hab. in foliis Rhododendri pontici, in Gallia et Lusitania.
 118. Phyllosticta Arbuti (Desm.) Sacc. Mich. II. p. 87. Cheilaria Arbuti Desm. 13 Not. p. 68. Maculis minutis fuligineis; peritheciis epiphyllis, erumpentibus, minutissimis, confertis, atris, nitidis, rotundato-oblongis, rima (genuina?) dehiscentibus; sporulis ovoideis, minutissimis, 5 μ. long., 2-guttulatis, hyalinis.

Hab. in foliis emortuis Arbuti Unedonis, in Gallia.

119. Phyllosticta microsticta Dur. et Mont. Fl. Alg. I. 612, Mont. 119 Syll. p. 279. — Epiphylla; maculis parvis fuscescentibus, tandem epidermide decolori albis, ambitu atro-fuscis, confluentibus; peritheciis paucis, minimis, tandem late apertis; ore lacero; sporulis atomisticis.

24

Hab. in foliis vivis Arbuti Unedonis, Alger (Durieu); in

foliis ramulisque ejusdem in Lusitania (Moller).

120. Phyllosticta Andromedæ West. in Kickx Crypt. Fl. I. 416. — 120 Peritheciis epiphyllis, nigris, nitidis, minutis, in maculis subcircularibus, brunneis, v. brunneo-cinereis, purpureo-marginatis; sporulis ovoideis, hyalinis, biguttulatis; cirris albidis.

Hab. in folis Andromedæ cassinefoliæ, in hortis belgicis.

121. Phyllosticta Garryæ Cooke et Harck. Grev. IX. pag. 84. — 121 Epiphylla; maculis ellipticis, griseis, purpureo-cinctis; peritheciis convexis, prominulis, atris, subnitidis; sporulis arcte ellipticis, hyalinis, continuis, $10-12 \approx 2-2,5$.

Hab. in foliis Garryæ ellipticæ, in Amer. boreali.

122. Phyllosticta flavidula Sacc. Mich. I. p. 531. — Maculis variis, arescendo expallentibus rufo-cinctis; peritheciis paucis velatis lentiformibus, 100 μ . diam., pertusis; sporulis ovoideis, $2^{1}/_{2}-3 \approx 1$, e hyalino luteolis, coacervatis melleis.

Hab. in foliis Callistemonis cultæ in hortis Saintes in Gal-

·lia (BRUNAUD).

123. Phyllosticta clethricola Ell. et Mart. Amer. Nat. 1882, p. 1002. 123
Peritheciis amphigenis erumpentibus; maculis pallide fuscis, 2-10
mill. diam.; sporulis subhyalinis, guttulatis, ovoideis, 9 = 6.

Hab. in foliis Clethræ alnifoliæ, Newfield New Jersey

in America boreali.

124. Phyliosticta limbalis Pers. sec. Wallr. Crypt. Germ. n. 3706. 124

Depazea buxicola Fr. S. M. II. 528. — Maculis oblongis candidis, fusco-marginatis, plerumque prope foliorum marginem; peritheciis raris, globulosis, nigricantibus; sporulis oblongis, hyalinis, 3-4-guttulatis, ampliusculis.

Hab. in foliis vivis Buxi sempervirentis, in Germania,

Belgio, Gallia, Britannia, Italia.

125. Phyllosticta buxina Sacc. Mich. I. p. 137. — Maculis vagis, are- 125 scendo expallentibus; peritheciis sparsis, punctiformibus; sporulis oblongo-ellipsoideis, minutissimis, $4 \approx 1 \frac{1}{2}$, utrinque 1-guttulatis, hyalinis.

Hab. in foliis Buxi sempervirentis, Selva in Ital. bor.

126. Phyllosticta Germanica Speg. Nov. Add. n. 151. — Peritheciis 126 globosis, atro-olivaceis, parenchymati immersis minutis, globoso-lenticularibus, 100 μ . diam., maculis fuligineis insidentibus, contextu laxe membranaceo, dilute olivaceo, ostiolo parvo donatis; sporulis ellipticis vel ovoideis, chorinis, $4-6 \approx 2-3$, eguttulatis.

Hab. ad folia languida Myricariæ Germanicæ, in alveo Plavis in Ital. bor., socia Pestalozzia funerea Desm. var. discolore Speg.

127. Phyllosticta Haynaldi Roum. Sacc. et Mich. II. p. 342. — Maculis 127 epiphyllis, vagis, vinoso-roseis; peritheciis dense gregariis, lenticularibus, 1/8 mill. diam., poro pertusis, epidermide velatis; sporulis ovoideis, 5 = 2, minutissime biguttulatis, hyalinis.

Hab. in foliis Ilicis Aquifolii cultæ, Bagnères de Luchon

in Gallia.

128. Phyllosticta cistina Thüm. Contr. Myc. Lusit. n. 367. Phyllosticta Cisti Roum. F. Gall. n. 236. — Peritheciis minutis, vix visibilibus, epiphyllis, exacte globosis, semiimmersis, atris in macula valde minuta, orbiculata, primo purpureo-nigra, demum exarescente cinerea, purpureo-cineta; sporulis minutissimis, ovoideo-globosis, simplicibus, enucleatis, achrois, $4 \approx 1.5$.

Hab. in foliis vivis languidisve Cisti salvifolii, crispi et

laurifolii, in Gallia, Lusitania et Græcia.

129. Phyllosticta Cameliæ West. in Kickx Fl. Crypt. Fl. I. p. 416. 129

— Peritheciis epiphyllis, minutis, nigris, globulosis, sparsis; maculis subcircularibus, fuscescentibus, dein expallentibus crasse rufo-marginatis; sporulis ovoideis, hyalinis, 2-3-guttulatis; cirris albidis.

Hab. in foliis Cameliæ japonicæ, in hortis Belgii et Galliæ. 130. Phyllosticta Magnoliæ Sacc. Mich. I. p. 139. — Maculis plerum- 130 que epiphyllis, versiformibus, arescendo dealbatis, non marginatis; peritheciis punctiformibus, lenticularibus, raris; sporulis oblongis, utrinque rotundatis, $4 \approx 1^{1}/_{2}$ -2, hyalinis.

Hab. in foliis Magnoliæ grandifloræ, in horto Patavino in Ital. bor. — *Ph. Gookei Sacc. [Ph. Magnoliæ Cooke Grev. IX. p. 94, vix Sacc.]. A typo differt sporulis multo amplioribus, nempe 8-12 ≈ 3-4,5. In foliis Magnoliæ grandifloræ, in horto Kew in Britannia.

131. Phyllosticta Mahoniæ Sacc. et Speg. Mich. I. 153. — Maculis 131 obsoletis; peritheciis sparsis, lenticularibus, punctiformibus, 200 μ . diam., poro angusto pertusis, ochraceo-fuligineis; sporulis ellipsoideis vel subrotundis, utrinque obtusiusculis, $4-6 \approx 3-4$, hyalinis.

Hab. in foliis dejectis Mahoniæ Aquifolii, Conegliano, Gorizia in Italia bor., et in Gallia.

132. Phyllosticta japonica Thum. Contr. Myc. Lusit. — Peritheciis 132 numerosis, epiphyllis, gregariis, minutis, punctiformibus, conico

emersis, longe diu tectis in macula magna arescendo-albida v. dilute luteo-alba, distincte fuscidulo-marginata, subtus sordide ochracea; sporulis numerosis, ellipsoideis, utrinque rotundatis, grosse 1-nucleatis, $4-4.5 \approx 2.5-3$, hyalinis.

Hab. in foliis subvivis Mahoniæ japonicæ, Coimbra in Lusitania, in horto botanico (Moller). - Ph. Mahonice Sacc. et Speg. in Mich. I. p. 153 valde differt defectu macularum et sporularum

magnitudine!

133. Phyllosticta Westendorpii Thum. Pilzfl. Sibir. n. 804, Ph. Ber- 133 beridis West. in Kickx Fl. d. Flandres, I. p. 419, non Rabh. — Maculis angulosis, albidis, sanguineo-marginatis; peritheciis epiphyllis, nigris, punctiformibus, paucis; sporulis ovoideis, 2-3-guttulatis, hyalinis, $9-11 \approx 5-5.5$.

Hab. in foliis Berberidis vulgaris et altaicæ, in Belgio et Sibiria.

134. Phyllosticta Berberidis Rabh. in Herb. myc. n. 1865. - Ma. 184 culis sinuosis arescendo griseis dein dealbatis; peritheciis epiphyllis, punctiformibus lenticularibus; sporulis ovoideis, $4-5 \approx 3$, hyalinis.

Hab. in foliis Berberidis vulgaris, in Germania, Austria, Gallia et Italia boreali. — Species homonyma Westendorpii, Kickx Flandr. I. 419, aliena videtur, nam ejusdem sporulæ majores sunt, nempe 10 = 5 atque 2-3-guttulate.

135. Phyllosticta Laureolæ Desm. 14 Not. pag. 33. — Maculis am- 135 phigenis, helvolis, paucis, subrotundatis v. irregularibus; peritheciis epiphyllis, raro hypophyllis, numerosis, approximatis, nigris, nitidis, innato-prominulis, convexis, dein umbilicatis, poro pertusis.

Hab. in foliis languescentibus Daphnes Laureolæ, in Gallia et Lusitania. - Sporulæ, teste Thümen, continuæ, ellipsoideæ,

enucleatæ, hyalinæ, $6 \approx 4-4,3$.

136. Phyllosticta Nerii West. Exs. n. 963, Kickx F. Flandr. I. 148. 136 - Maculis subcircularibus angulosisve, candidis, zona fusca elevata cinctis; peritheciis amphigenis, innatis, dein prominulis, sparsis, atris; sporulis hyalinis, ovoideo-oblongis, 2-guttulatis (« 15-18 = 5-6, nubilosis vel 1-guttatis»).

Hab. in foliis Nerii Oleandri, in Italia, Gallia, Belgio et Lusitania. — Dothidea circinans Roum. F. Gall. 123 huc forte spectat, sed exemplaria visa nimis imperfecta.

137. Phyllosticta Opuntiæ Sacc. et Speg. Mich. I. p. 156. — Maculis 137. variis, arescendo candidis, margine subelevato lutescenti cinctis;

peritheciis gregariis, lenticularibus, 150 μ . diam., pertusis, laxe cellulosis fuligineis; sporulis ovoideis, $5-8 \approx 3-3^{\rm I}/_2$, curvulis rectisve, dilute olivaceis.

Hab. in cladodiis Opuntiæ Ficus indicæ, Conegliano in Italia boreali.

138. Phyllosticta Paulowniæ Sacc. Mich. I. p. 143. — Maculis variis 138 sinuosis, confluentibusque, arescendo ochraceis, saturatius marginatis; peritheciis epiphyllis, punctiformibus, gregariis, lenticularibus; sporulis oblongis, minutissimis, $3 \approx 1^{1}/_{2}$, hyalinis.

Hab. in foliis Paulownie imperialis, Vittorio in Italia

bor., et in Gallia.

139. Phyllosticta Forsythiæ Sacc. Fung. ital. 87. Mich. n. I. p. 93. — 139 Maculis subcircularibus, arescendo ochraceis, vix marginatis; peritheciis epiphyllis, sæpe concentrice dispositis, lenticularibus, pertusis, 150-180 μ . diam., initio velatis, fulvis; sporulis ovoideis, 5- $7 \approx 2\frac{1}{2}$ -3, 2-guttulatis, hyalinis.

Hab. in foliis Forsythiæ suspensæ, in horto botanico Patavino in Italia boreali.

140. Phyllosticta Weigeliæ Sacc. et Speg. Mich. I. p. 139. — Maculis 140 variis, arescendo candidis; peritheciis sparsis, lenticularibus, 150-200 μ. diam., pertusis, contextu minuto parenchymatico, atro; sporulis oblongo-ellipsoideis inæqualibus, 2-guttulatis, 6-8 ≈ 3, hyalinis.

Hab. in foliis Weigeliæ roseæ, Conegliano in Ital. bor., et in Gallia.

141. Phyllosticta Tiliæ Sacc. et Speg. Mich. I. p. 158. — Maculis 141 versiformibus arescendo dilute ochraceis, fuligineo-marginatis; peritheciis sparsis, lenticularibus, 120 p. diam., pertusis, contextu parenchymatico laxo, subolivaceo; sporulis ellipsoideis, utrinque obtusis, $5-6 \approx 3$, dilute chlorinis.

Hab. in foliis Tiliæ europeæ, Conegliano in Ital. bor.

142. Phyllosticta Syriaca Sacc. Mich. I. p. 136. — Maculis sinuosis va- 142 riis arescendo dealbatis late fusco-cinctis; peritheciis remotiusculis, punctiformibus, lenticularibus, 50 μ . diam., pertusis; sporulis ovoideis v. subellipsoideis, $7 \approx 3-4$, hyalinis.

Hab. in foliis Hibisci syriaci, Vittorio in Italia bor. et Coimbra in Lusitania. — A *Phoma maculari* Desm. prorsus diversa.

143. Phyllosticta Schini Thum. Contr. Myc. Lusitan. — Peritheciis 143 sparsis, solitariis, epiphyllis, hemisphærico-emersis, nigris, mediis in macula ochraceo-fusca, magna, irregulari, zona obscuriore cin-

28

cta; sporulis ellipsoideis, utrinque rotundatis, continuis, non guttulatis, achrois, $3 \approx 1$.

Hab. in foliis vivis Schini Molle, Coimbra in Lusitania, in horto botanico (Moller).

144. Phyllosticta Henriquesii Thüm. Contr. Myc. Lusit. — Peri- 144 theciis epiphyllis, submagnis, lenticulari-subhemisphæricis, emersis, sparsis, aterrimis, in macula orbiculari, arescendo albida, purpureo-cincta; sporulis ellipsoideis, continuis, utrinque acutato-rotundatis, uni- vel biguttulatis, achrois, 5-6 ≈ 2,5-3.

Hab. in foliis languidis Tecomæ radicantis, Coimbra in Lusitania in horto botanico (Moller). — A Phyllosticta Tecomæ Sacc. in Mich. I. p. 148, macularum colore et sporularum magnitudine satis diversa.

145. Phyllosticta erysiphoides Sacc. Mich. I. p. 620. — Peritheciis 145 gregariis in pag. inf. dealbata, subinnatis, hemisphæricis, 110 μ . d., pertusis; sporulis oblongis, utrinque obtusis, 4-4,5 \approx 2,5, hyalinis.

Hab. in foliis Tecomæ radicantis, Saintes in Gallia (Bru-

NAUD). - Spermogonium Sphærellæ erysiphoidis Sacc.

146. Phyllosticta Tecomæ Sacc. Mich. I. p. 148. — Maculis versi- 146 formibus, arescendo fulvo-ochraceis; peritheciis sparsis lenticularibus, 90-100 μ . diam., pertusis, contextu laxiuscule fuligineo; sporulis oblongo-ovoideis $8 \approx 3-3 \frac{1}{2}$, 2-guttulatis, hyalinis, basidiis æquilongis filiformibus fultis.

Hab. in foliis Tecomæ radicantis, Vittorio in Italia bor.,

Coimbra in Lusitania.

147. **Phyllosticta Bignoniæ** West., Thüm. F. A. n. 1075, Mich. I. p. 147 137. — Maculis versiformibus, arescendo albido-griseis sæpe rufo-marginatis; peritheciis punctiformibus, lenticularibus, 70-90 μ . d.; sporulis oblongo-ovoideis, $5-7 \approx 2 \frac{V}{2} - 3 \frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in foliis Catalpæ syringifoliæ, Conegliano in Italia

boreali et in Belgio. — Sec. West. sporulæ 10 = 3,3.

148. Phyllosticta Tweediana Penz. et Sacc. F. Mort. n. 15, tab. IV. 148 fig. 4. — Peritheciis laxe congregatis, minimis, punctiformibus, 120-130 μ. diam., hypodermicis, dein prorumpentibus, atris, ostiolatis, sphæroideis, paullum compressis, tenuibus; sporulis breviter cylindraceis, utrinque rotundatis, eguttulatis, 3-5,4 μ. long., 1,7-2 μ. crassis, hyalinis.

Hab. in capsulis Bignoniæ Tweedianæ, Mortola in Italia boreali (O. Penzio).

J 149. Phyllosticta Sterculiæ Winter Contr. Myc. Lus. n. 802. — Ma- 149

culis irregularibus, angulatis, pallide ochraceis, demum arescendo-candicantibus, late et indeterminate violaceo cinctis; peritheciis raris, subglobosis, fuscis, epiphyllis, 60-65 μ . lat.; sporulis oblongis vel clavatis, medio interdum perparum constrictis, spurie uniseptatis, hyalinis, $8-9 \approx 3$.

Hab. ad folia viva Sterculiæ heterophyllæ, in horto

botanico Coimbra in Lusitania.

150. Phyllosticta auriculata Kalchb. et Cooke Grev. IX. p. 20. — 150 Epiphylla; maculis orbicularibus, pallidis, purpureo-cinctis; peritheciis punctiformibus, immersis, poro pertusis; sporulis ellipticis, continuis, hyalinis 5 μ. longis.

Hab. in foliis Buddlejæ auriculatæ, in Africa austr.

151. Phyllosticta argyrea Speg. Fung. Arg. Pug. II. 121. — Ma- 151 culis epiphyllis, latis, orbiculari-difformibus, candidissimis; peritheciis densiuscule sparsis, punctiformibus, $90-100~\mu$. diam., atris; sporulis ellipticis, simplicibus, hyalinis, $3-5\approx 1-2$.

Hab. in foliis languidis Elæagni arboreæ, in horto botanico

Parco Julio in Argentina.

152. Phyllosticta Cocculi Thüm. in Rev. Mycol. — Peritheciis epi- 152 phyllis, sparsis, minutis, semiimmersis, punctiformi-conicis, atris in macula irregulari, arescendo-grisea, anguste nigro-fuscescente cincta, in pagina foliorum inferiore fusca; sporulis oblongis vel ellipsoideis, utrinque acutatulo-obtusis, simplicibus, achrois 10 ≈ 3.5-4.

Hab. in foliis vivis languidisve Anamirtæ Cocculi, Canara in Ind. or. (Dr. Κεςκ).

153. Phyllosticta Linocieræ Thum. in Roum. Rev. Mycol. — Peri- 153 theciis epiphyllis, mediis, sparsis, hemisphæricis, punctiformibus semiimmersis, nitido-atris, in macula orbiculari, concavo-elevata, postremo centro immerso et dilabente, lacerata, arescendo-nivea, linea ferruginea anguste cincta; sporulis ellipticis, continuis, vertice rotundatis, basi subangustatis, achrois, 9-10 ≈ 3,5-4,5.

Hab. in foliis vivis Linocieræ purpureæ (Chionanthi zeylanicæ Lin.), in insula Ceylon (Thwaires). — A Sphæria Chionanthi Berk. et Br. Fungi of Ceylon II. pag. 129 valde diversa.

154. Phyllosticta Chionanthi Thum. in Mycoth. univers. n. 1489. 154 — Peritheciis epiphyllis, sparsis, primo longe diu tectis, demum perforantibus, hemisphærico-emersis, nigris, mediis in macula arescendo ochraceo-albida, valde irregulari, subtus ochracea, linea

rufo-fusco anguste marginata; sporulis ellipsoideis, utrinque rotundatis, simplicibus, enucleatis, hyalinis, $3.5-5.5 \approx 2-2.5$.

Hab. in foliis vivis Chionanthi virginicæ, in horto botanico Coimbra in Lusitania (Moller). — A Phyllosticta Linocieræ Thum. in Revue mycologique II. 1880, p. 36 ad Linocieræ zeylanicæ Hook. (Chionanthi zeylanici Lin.) folia viva, sporulis dimidio minoribus valde diversa.

155. Phyllosticta Azedarachis Thum. Contr. Micol. Litor. n. 221, t. I. 155 f. 24. — Peritheciis gregariis, minutis, prominulis, globosis, atris in macula exarida, irregulari, albo-lutescenti, fusco-marginata, epiphylla; sporulis ellipsoideis, utrinque rotundatis, sine nucleis, numerosissimis, hyalinis, 5 ≈ 3.

Hab. in foliis vivis Meliæ Azedarachis, Gorizia in Ital. bor.

156. Phyllosticta Aucubæ Sacc. et Speg. Mich. I. p. 153. — Maculis 156 obsoletis v. nullis; peritheciis gregariis subcuticularibus, punctiformibus, 80-90 μ . diam., prominulis, anguste pertusis; sporulis oblongis, utrinque obtusiusculis, $2^{1}/_{2}-3 \approx 3/_{4}-1$, hyalinis.

Hab. in foliis dejectis Aucubæ japonicæ, Conegliano in Ita-

lia bor. (Spegazzini).

157. Phyllosticta aucubicola Sacc. Mich. II. p. 276. — Maculis vagis 157 amplis, arescendo expallentibus; peritheciis plerumque epiphyllis gregariis, punctiformibus, lenticularibus, 150 μ . diam., pertusis; sporulis obovatis, $6 \approx 3-3^{1}/_{2}$, nubilosis, hyalinis.

Hab. in foliis languidis Aucubæ japonicæ, in horto Pata-

vino - A Phyll. Aucubæ Sacc. et Speg. probe diversa.

158. Phyllosticta Liriodendri Thum. Contr. Mic. Lit. n. 213, tab. I. 158 fig. 30. — Peritheciis epiphyllis, minutis, gregariis, semiimmersis, globosis, nigris in maculis parvis, orbiculatis, exaridis, griseis; sporulis minutis, ellipsoideis, utrinque rotundatis, simplicibus, enucleatis, numerosis, $5-6 \approx 3$, achrois.

Hab. in foliis vivis Liriodendri Tulipiferæ, Gorizia.

159. Phyllosticta liriodendrica Cooke Grev. XII. p. 26. (Ph. Lirio- 159 dendri). — Epiphylla; maculis orbicularibus, fuscis, albescentibus, fusco-limitatis; peritheciis paucis, punctiformibus, centro congregatis, atris; sporulis ellipticis, hyalinis, 6 ≥ 2.

Hab. in foliis Liriodendri, in Carolina Austr. (RAVENEL).

160. Phyllosticta Ailanthi Sacc. Mich. I. p. 148. — Maculis latiusculis, 160 irregularibus, arescendo pallide ochraceis, rufo-cinctis; peritheciis remotiusculis, punctiformibus e globoso lenticularibus 50-60 μ. d., pertusis, laxe cellulosis; sporulis oblongo-ovoideis, 7-10 ≈ 4, hyalinis.

Hab. in foliis Ailanthi glandulosæ, Selva in Italia bor.

161. Phyllosticta destruens Desm. Ann. S. N. 1847, p. 31. — Ma- 161 culis arescendo albicantibus; peritheciis punctiformibus, hemisphæ-

ricis, epiphyllis; sporulis ex oblongo ovoideis, $5 \approx 1^3/4 - 2$, hyalinis.

Hab. in foliis Celtidis australis, Pruni lusitanicæ, in Italia, Gallia, Austria, Lusitania. — Var. Aceris platanoidis: peritheciis lenticularibus, pertusis, 80-100 μ . diam.; sporulis $7 \approx 2-2.5$, biguttatis, hyalinis.

162. Phyllosticta juglandina Sacc. Mich. I. p. 155. — Maculis vagis ¹⁶² arescendo dealbatis fusco-cinctis; peritheciis punctiformibus, lenticularibus; sporulis ovoideis, minutissimis, 4 ≈ 2, e hyalino olivaceis.

Hab. in foliis Juglandis regiæ, Vittorio in Italia boreali et Coimbra in Lusitania.

163. Phyllosticta Juglandis (DC.) Sacc. Mich. I. p. 135, $Xyloma\ Ju$. 163 $glandis\ DC.$ — Maculis vagis are scendo dealbatis fusco-cinctis; peritheciis epiphyllis, sparsis, punctiformibus, lenticularibus, 80 μ . diam., pertusis; sporulis ovoideo-oblongis, 6-7 \approx 3-4, minute 2-guttulatis, hyalinis.

Hab. in pag. sup. foliorum Juglandis regiæ languidorum, in Italia boreali, Austria et Gallia.

164. Phyllosticta Pterocaryæ Thum. Contr. Fl. Myc. Lus. — Peri- 164 theciis epiphyllis, numerosis, minutis, gregarie densis, punctiformibus, atris in macula irregulari, sæpe marginali, arescendo griseo-ochracea, sordide fusco-cineta, subtus fuscidula; sporulis ellipsoideis, utrinque subacutato-rotundatis, enucleatis, hyalinis, 4,5-6 ≈ 3.5-4.

Hab. in foliis vivis Pterocaryæ caucasicæ, in horto botanico Coimbra in Lusitania (Moller).

165. Phyllosticta alnigena Thum. Contr. Myc. Lus. n. 370. — Pe- 165 ritheciis hypophyllis, gregariis, in circulo sæpe dispositis, emersis, minutissimis, obscure griseis in macula arescendo ochraceo-fulva, orbiculari, concentrice zonata, magna; sporulis bacillaribus, rectis vel subarcuatis, utrinque rotundatis, continuis, hyalinis, 10 ≈ 3.

Hab. ad folia viva Alni cordifoliæ, Choupal prope Coimbra in Lusitania (Moller).

166. Phyllosticta Coryli West. in Bull. Ac. Belg. XIX, n. 9, Mich. 166 I. p. 138. — Maculis variis satis amplis, ochraceo-fuscis, dein sordide albicantibus; peritheciis lenticularibus, $100-150~\mu$. diam., pertusis, contextu parenchymatico luteo-fuligineo; sporulis ellipsoideis, $7-8 \approx 2-3^{1}/_{2}$, utrinque rotundatis, 2-guttulatis, hyalinis.

Hab. in foliis Coryli Avellanæ, in Belgio et Italia bor.

167. Phyllosticta corylaria Sacc. Mich. I. p. 153. — Maculis vagis, 167 sinuosis, arescendo pallide ochraceis, brunneo-marginatis; peritheciis remote sparsis, punctiformibus, hemisphæricis, prominulis, 80 μ. diam., pertusis, contextu minute celluloso; sporulis ovato-oblongis, 4-4½ ≥ 2, dilute olivaceis.

Hab. in foliis Coryli Avellanæ, Selva in Italia bor. —

A Cheilaria (Labrella) Coryli Desm. toto cœlo diversa.

168. Phyllosticta carpinea Sacc. Mich. I. p. 158. — Maculis subcircu- 168 laribus, sinuosisve majusculis, arescendo dilute ochraceis, brunneo-marginatis; peritheciis sparsis, punctiformibus, pertusis; sporulis e globoso ovoideis, 4-3, e hyalino olivaceis.

Hab. in foliis Carpini Betuli et C. Duinensis, in Ita-

lia boreali.

169. Phyllosticta Carpini Schulz. et Sacc. Micr. Slav. n. 54, Schulz. 169 Ill. Fung. Slav. n. 8, 9. — Peritheciis gregariis, hypophyllis, epidermide tumidula tectis, globosis, vix pertusis, 60-100 μ. d.; sporulis oblongis, utrinque rotundatis, 5-6 μ. longis, hyalinis.

Hab. in foliis Carpini Betuli, socia Melampsorew, prope Vinkovce. — A Phyll. carpinea differt peritheciis prominulis; spo-

rulis oblongis nec subglobosis, prorsus hyalinis.

170. Phyllosticta betulina Sacc. Mich. I. p. 154. — Maculis nullis; 170 peritheciis epiphyllis hinc inde dense maculiformiter aggregatis, innato-prominulis, globoso-lenticularibus, atris; sporulis botuliformibus minutis, 4-6 ≈ 1-1'/4, curvulis, hyalinis.

Hab. in foliis Betulæ albæ, socia Sphærella maculiformi f. Betulæ, cujus videtur spermogonium, Conegliano in Italia bo-

reali, et in Gallia.

171. Phyllosticta sycophila Thum. Contr. F. Litor. n. 212, fig. 26. 171

— Peritheciis epiphyllis, raro amphigenis, sparsis, erumpentibus, globoso-conicis, ostiolatis, plus minusve parvulis, atris in maculis maximis, irregularibus, exaridis, albicantibus; sporulis minutis, ovatis vel cylindrico-ovatis, utrinque rotundatis, simplicibus, binucleatis, hyalinis, 3-4 ≈ 2.

Hab. ad folia viva languidave Ficus Caricæ, in ditione Goritiensi nec non in Gallia et Lusitania. — Specimina gallica præbuerunt sporulas $5-6 \approx 4$.

172. Phyllosticta Platani Sacc. et Speg. Mich. I. p. 153. — Maculis 172 obsoletis; peritheciis sparsis, punctiformibus, lenticularibus, luteo-

33

lis; sporulis ovoideo-oblongis, $5-6 \approx 1-1^{1}/_{2}$, minute 2-guttulatis, nubilosis hyalinis.

Hab. in pag. infer. foliorum Platani orientalis, Conegliano in Italia boreali.

173. Phyllosticta ulmicola Sacc. Mich. I. p. 158. — Maculis vagis, 173 majusculis, arescendo ochraceis, margine concolori; peritheciis gregariis, punctiformibus, 70-80 diam., lenticularibus, pertusis; sporulis oblongo-ellipsoideis, 6 = 3, e hyalino olivaceis.

Hab. in foliis Ulmi campestris, Selva in Italia bor. — A Phyll. Ulmi West. Fl. Batav. Fung. 99 differt maculis ochraceis nec griseis, sporulisque minoribus (nec $10 \approx 5$) pallide coloratis nec hvalinis.

174. Phyllosticta Ulmi West. Bull. Ac. Belg. II. Ser. XII. vol. n. 7. 174 — Maculis amphigenis, subcircularibus, sparsis, confluentibusque, cinerascentibus, immarginatis, subinde sterilibus; peritheciis raris, perexiguis, sparsis, pertusis; sporulis ovoideis, 1-2-guttulatis, hyalinis, 10 ≈ 5.

Hab. in foliis emortuis Ulmorum, Louvain in Belgio (E. MARTENS).

175. Phyllosticta populea Sacc. Mich. I. p. 135. — Maculis irregu- 175 laribus, sinuosis, arescendo candicantibus, fusco-marginatis; peritheciis remotis, punctiformibus, lenticularibus, prominulis, pertusis; sporulis breve cylindraceis, $3^{1}/_{2} \approx 1/_{2}$, quandoque medio subconstrictis sed continuis, utrinque rotundatis et minute 1-guttulatis, hyalinis.

Hab. in pag. super. foliorum Populi albæ, Covolo in Italia boreali.

176. Phyllosticta populina Sacc. Mich. I. 155, Depazea populina 176 Sacc. Myc. Ven. 193, an Fuck. — Maculis angulosis, arescendo candidis, nigromarginatis; peritheciis punctiformibus, pertusis; sporulis ellipsoideis vel ovoideis, 6 = 3, e hyalino olivaceis.

Hab. in pag. sup. foliorum Populi nigræ, socia Septoria Populi Desm., Selva in Ital. bor. — Quo spectent Phyll. populina Pers. et Phyll. populnea Desm. (in Oudem. Mat. Neerl. II, 23) prorsus ignoro.

177. Phyllosticta Populorum Sacc. et Roum. Mich. II. p. 620. — Pe- 177 ritheciis epiphyllis in partibus adhuc vivis gregariis, tectis, lenticularibus, 80 μ . diam., late pertusis, contextu laxe celluloso, subochraceo; sporulis oblongis, sæpe curvulis, 6-7 \approx 3, 2-guttatis, hyalinis.

Hab. in foliis Populi balsamiferæ, Malmedy in Gallia, et in Germania.

178. Phyllosticta Alcides Sacc. Mich. I. pag. 135. — Maculis sinuo- 178 sis, arescendo albidis, fusco-cinctis; peritheciis sparsis, punctiformibus; sporulis ovoideis, utrinque obtuse subattenuatis, 1-guttulatisque, $5 \approx 3$, hyalinis.

Hab. in pag. sup. foliorum Populi albæ, Covolo in Ital. bor. ¹⁷⁹ 179. **Phyllosticta osteospora** Sacc. Mich. I. 531. — Maculis rufescentibus variis v. obsoletis; peritheciis hinc inde aggregatis, tectis, globulosis, 80-90 μ . diam., pertusis; sporulis bacillaribus, 6-7 \approx 1, rectis, utrinque incrassatis (humeriformibus), hyalinis.

Hab. in foliis Populi nigræ, Fraxini, Mori et Rhamni,

in Italia et Gallia.

180. Phyllosticta bacteriiformis (Pass.) Sacc. Ascochyta bacteriifor- 180 mis Pass. in Myc. univ. n. 994. — Sporulis bacillaribus, tenuissimis, ad apices leviter incrassatis, hyalinis.

Hab. in foliis elapsis Populi nigræ, Vigheffio in Ital. bor.

181. Phyllosticta globulosa Thum. Contr. Fl. mic. Lit. pag. 324. — 181 Peritheciis epiphyllis, sparsis, parvulis, hemisphærico-emersis, nigris in macula irregulari, arescendo sordide griseo-albida, anguste sed distincte linea rufa marginata, postremo dilacerata; sporulis subglobosis vel ovato-globosis vel fere guttulæformibus, grosse uni-binucleatis, simplicibus, hyalinis, 6-9 u. diam.

Hab. ad folia viva Quercus pedunculatæ, Parenzo in

Istria.

182. Phyllosticta Quercus Sacc. et Speg. Mich. I. p. 138. — Maculis 182 variis, subrotundisve, arescendo albicantibus; peritheciis punctiformibus, lenticularibus, 200 μ . diam., latiuscule pertusis, olivaceofuligineis; sporulis ellipsoideis, rectis curvulisve, $7-9 \approx 2^1/2-4$, obsolete 1-2-guttulatis, hyalinis.

Hab. in foliis languidis quercinis, Susegana in Italia boreali,

et in Gallia (Spegazzini).

183. Phyllosticta vesicatoria Thum. F. Americ. n. 16, in Flora, 183 1878. — Peritheciis epiphyllis, sparsis, globosis, semiimmersis, mediis, atris, ostiolatis, in macula magna, exarida, vesiculosa, girseofusca, purpureo-limitata; sporulis minutissimis, ellipsoideo-cylindricis, utrinque rotundatis, rectis, hyalinis, simplicibus, diaphanis, 2,5 ≈ 1,5.

Hab. ad folia viva languidave Quercus cinereæ, Aiken in Amer. bor. (H. W. RAYENEL).

184. Phyllosticta ilicina Sacc. Mich. I. p. 136. — Maculis vagis, pallidis, 184 exaridis, obsolete marginatis; peritheciis lenticularibus, prominulis, $60-70~\mu$. diam., pertusis, remotis; sporulis ovoideo-oblongis, S- $10 \approx 3^{1}/_{2}-4$, 2-guttulatis, hyalinis.

Hab. in foliis Quercus Ilicis, in Ital. bor., Austria et Lusitania.
185. Phyllosticta phomiformis Sacc. Mich. I. p. 573. — Maculis vagis, 185 ochraceis; peritheciis laxe gregariis, globoso-lenticularibus, pertusis, 130-150 μ. diam., solidiusculis, nigris; sporulis oblongis, utrinque acutiusculis, 20-22 ≈ 8-10, granulosis, hyalinis; basidiis brevissimis, sursum acutatis.

Hab. in foliis Quercus albæ, in Pensylvania (Doct. G. MARTIN).

186. Phyllosticta Quercus-Ilicis Sacc. Mich. I. p. 155. — Maculis epi- 186 phyllis, subrotundo-sinuosis, arescendo candicantibus, linea atrorufa distincte marginatis; peritheciis gregariis, punctiformibus, lenticularibus, epidermide velatis; sporulis ellipsoideo-oblongis, 5 ≈ 4, luteolis.

Hab. in foliis Quercus Ilicis, in horto Boboli Florentiæ in Italia boreali. — A Phyll. ilicina Sacc. statim distinguenda.

187. Phyllosticta quernea Thüm. F. Austr. n. 81. — Maculis variis, 187 irregularibus vel subsinuosis, arescendo griseo-ochraceis, anguste fusco marginatis, cito dilaceratis et exesis; peritheciis sparsis, epiphyllis, conico-emersis, parvis, nigris; sporulis ellipticis vel ovoideis, utrinque rotundatis, enucleatis, pallidissime griseis, 3,5-5 ≈ 2,5. Hab. ad folia viva Quercus pubescentis, Kalksburg in

Austria (Wieseaur). — A *Phyllosticta Quercus* Sacc. Mich. I. p. 138 valde diversa macularum forma et sporularum magnitudine.

188. Phyllosticta Quercus-rubræ W. R. Ger. Bull. Torr. 1875, p. 78. 188 — Maculis paucis subcircularibus v. irregularibus, albidis, rubido-marginatis; peritheciis epiphyllis, numerosis, minutis, globosis, nigris, in centro maculæ congestis; sporulis perexiguis ovoideis.

Hab. in foliis Quercus rubræ, Poughkeepsie in Amer. bor. 189. Phyllosticta maculiformis Sacc. Mich. II. p. 538. — Perithe-189 ciis hypophyllis, hinc inde in greges minutos, atros, maculiformes junctis, globoso-depressis, pertusis, 80-100 μ . diam.; sporulis cylindraceis, curvulis, $4 \approx 1$, hyalinis.

Hab. in foliis languidis v. emortuis Castaneæ vescæ, in montanis Tridentinis (Bresadola). — Spermogonium videtur Sphærellæ maculiformis. Huc verisimiliter spectat Sphæria (Sphærepsis) maculiformis Curr. Simpl. Sphær. pag. 332.

190. Phyllosticta Carissæ Kalch. et Cooke Grev. IX. p. 20. — Epi- 190 phylla; maculis suborbicularibus, pallide fuscis, brunneo-cinctis; peritheciis punctiformibus, papillatis, immersis; sporulis arcte ellipticis, hyalinis, 6 μ. longis.

Hab. in foliis Carissæ Arduinæ, in Africa meridionali.

191. Phyllosticta Nyssæ Cooke Grev. XII. pag. 26. — Epiphylla; 191 maculis pallidis, irregularibus, magnis, purpureo-cinctis; peritheciis minutissimis, punctiformibus, atris; sporulis subellipticis, hyalinis, $3.5 \approx 1.5~\mu$.

Hab. in foliis Nyssæ capitatæ, Darien in Georgia (RA-

VENEL).

192. Phyllosticta Stigmaphylli Speg. F. Arg. Pug. IV. n. 273. — 192 Maculis subindeterminatis, orbicularibus, 3-5 mill. diam., centro pallescentibus, peripherice fulvo-fuscescentibus, concentrice rugulosis; peritheciis epiphyllis, subperiphericis, innato-prominulis, hemisphæricis, 80-90 μ . diam., membranaceis, contextu indistincte parenchymatico; sporulis ellipticis, utrinque obtusiusculis, rectis v. vix inæquilateralibus, 8-11 \approx 3, rarissime medio 1-pseudoseptatis, hyalinis.

Hab. in foliis vivis Stigmaphylli litoralis, in sepibus, Boca del Riachuelo in Argentina.

193. Phyllosticta marmorata Cooke Grev. IX. p. 13. — Maculis ni- 193 veis, numerosissimis, hinc illinc confluentibus; peritheciis paucis, 1- 2, semiimmersis, punctiformibus, brunneis; sporulis ellipticis, hyalinis, 5 μ . long.

Hab. in foliis Malloti Philippinensis, Saharumpore in

India (Duthie).

194. Phyllosticta Napoleoneæ Thüm. Contr. Fl. myc. Lusit. — Pe- 194 ritheciis epi- raro etiam hypophyllis, gregariis, submagnis, semi-immersis, conoideis, atris sæpe a Cladosporio obductis, in macula irregulari, exarida, sordide albescenti, magna, anguste sed distinctissime fusco-cincta, in pagina inferiore folii sordide ochraceo-fusca; sporulis ellipticis, simplicibus, utrinque rotundatis, achrois vel dilute cinerescentibus, 4,5 ≈ 3.

Hab. ad folia viva Napoleoneæ imperialis, Coimbra in

Lusitania, in caldariis horti botanici (Moller).

195. Phyllosticta bonariensis Speg. F. Arg. Pug. I. 189. — Maculis 195 orbicularibus, determinatis, 3-6 mill., majusculis, subaridis, melleopallescentibus, areola exilissima purpurascente cinctis; peritheciis sparsis vel laxe gregariis, minutis, 90-100 µ. diam., lenticularibus,

Sphærioideæ, Hyalosporæ, Phyllosticta.

37

membranaceis, contextu parenchymatico, fuligineo, ostiolo minuto donatis; sporulis ellipsoideis vel ovoideis, 5-8 \times 3-4, hyalinis.

Hab. ad folia viva vel languida Nectandræ speciei, ultra el

Riachuelo in Argentina.

196. Phyllosticta Heteromeles Cooke et Harkn. Grev. IX. p. 84. — 196 Epiphylla; maculis pallidis, orbicularibus vel confluentibus, nigrolimitatis; peritheciis convexis, atris; sporulis ellipticis, hyalinis, continuis, 8 = 2.

Hab. in foliis Heteromeles, in America boreali.

II. In plantis dicotyledoneis herbaceis.

197. Phyllosticta Ranunculorum Sacc. et Speg. Mich. I. p. 150. — 197 Maculis vagis, fuligineis; peritheciis hemisphærico-lenticularibus, prominulis, pertusis; sporulis ovoideis, minutis, 5-6 ≈ 3-3¹/₂, hyalinis.

Hab. in foliis Ranunculi repentis, in isdem maculis, quibus primitus insederat Didymaria Ungeri Corda, Conegliano in Ital. bor. (Spegazzini).

198. Phyllosticta Ranunculi (Fuck.) Sacc. Ascochyta Ranunculi Fuck. 198 Symb. myc. pag. 38. — Peritheciis gregariis, in macula exarida, minutis, conicis, aterrimis; sporulis minutissimis, globosis.

Hab. in foliis vivis Ranunculi acris, Œstrich in Germania.
199. Phyllosticta Thalictri West. Bull. Ac. Belg. II. Ser. XII. vol. 199 n. 7. — Maculis epiphyllis, angulosis, irregularibus, internerviis, initio fuscis, dein cinerescentibus, saturatius marginatis; peritheciis sparsis, atris, pertusis; sporulis ovoideis, hyalinis, 1-2-guttulatis, 10 ≈ 5.

Hab. in foliis Thalictri flavi, Namur in Belgio (ΒΕΙΙΥΝΟΚ).
200. Phyllosticta Pæoniæ Sacc. et Speg. Mich. I. pag. 160. — Ma-200 culis obsoletis; peritheciis sparsis, punctiformibus, globulosis, prominulis, 200 μ. diam., pertusis, laxiuscule cellulosis; sporulis ovoideis, 10 ≈ 5, quandoque obsolete 2-guttulatis, dilute olivaceis.

Hab. in foliis Pæoniæ corallinæ, Conegliano in Ital bor.
201. Phyllosticta helleborella Sacc. Fungi Ven. Ser. V. 301. Mich. 201
I. pag. 143. — Maculis arescendo candidis, nitidis, variis, sæpe angulosis, atromarginatis, plerumque epiphyllis; peritheciis lenticularibus latiuscule hiantibus, punctiformibus; sporulis oblongoovoideis, utrinque acutiusculis, 7 ≈ 3, 2-guttulatis, hyalinis.

Hab. in foliis Hellebori viridis, Covolo in Ital. bor., socia Sphærella Hermione Sacc., cujus est spermogonium.

202. Phyllosticta Ajacis Thüm. Fl. mycol. Litor. n. 329. — Perithe-202 ciis epiphyllis, sparsis, hemisphærico-emersis, opaco-nigris, mediis in macula valde irregulari, sæpe marginali, arescendo candicante, late fusco-cincta; sporulis oblongis, utrinque rotundatis, non vel uninucleolatis, hyalinis, 4-5 ≈ 2.

Hab. in foliis vivis Delphinii Ajacis, Plezzo in agro Goritiensi.

203. **Phyllosticta Violæ** Desm. 14 Not. pag. 29. — Amphigena; ma- 203 culis albidis, rotundatis, sparsis vel confluentibus; peritheciis innatis, numerosis, microscopicis, fuscis; cirris albis; sporulis minutissimis rectis, subcylindricis, 10 μ. longis.

 $\it Hab.$ in foliis languescentibus Violæ odoratæ, in Gallia, Britannia, Italia, Belgio — f. **Violæ tricoloris** Sacc. Mich. I. p. 143. Maculis subcircularibus oblongisve, arescendo candidis, rufo-marginatis; peritheciis punctiformibus, lentiformibus, $100~\mu.$ diam., laxiuscule cellulosis, pertusis; sporulis oblongis v. subcylindraceis, $6\approx 2 \frac{V}{2}$, sæpe curvulis, 2-guttulatis, hyalinis. — In foliis Violæ tricoloris, Selva in Ital. bor.

204. Phyllosticta Helianthemi Roum. Rev. IV. 217. — Peritheciis 204 punctiformibus, nigris; maculis subcircularibus, albidis, minutis, vinoso-marginatis; sporulis perexiguis, oblongis, hyalinis, $3.5 \approx 1$. Hab. in foliis Helianthemi vulgaris, Dreux in Gallia

(GALLET).

205. Phyllosticta Cheiranthorum Desm. 17 Not. pag. 25. — Maculis 205 sparsis, irregularibus, albidis v. griseo-viridibus; peritheciis epigenis, globosis, prominulis, pallidis, dein fusco-nigricantibus, pertusis; sporulis rectis, subcylindricis, utrinque obtusiusculis, 3-4-guttulatis, 18-20 μ. long., 2-3-pseudo-septatis.

Hab. in foliis languidis Cheiranthorum, in Gallia. — Ob sporulas longas et pseudo-septatas vix Phyllostictæ species; an

potius Cercospora male observata?

206. Phyllosticta Napi Sacc. Mich. I. p. 532. — Maculis vagis, are 206 scendo expallentibus, immarginatis; peritheciis gregariis, epiphyllis, globoso-lenticularibus, 90-100 μ . diam., pertusis; sporulis oblongo-cylindraceis, curvulis, $4-6\approx 1^{1}/_{4}-1^{3}/_{4}$, minute 2-guttulatis, hyalinis.

Hab. in foliis Brassicæ Napi, in Gallia.

207. Phyllosticta Brassicæ (Curr.) West. in Bull. Acad. Brux. 1851, 207 p. 397, Kickx Crypt. Flandr. I. p. 413. Depazea Brassicæ Curr. Simpl. Sphær. n. 392. — Peritheciis epiphyllis, numerosis, minu-

tis, subplanis, nigris, sparsis; maculis pallide virescentibus, dein albidis; sporulis ovoideis, 2-3-guttulatis; cirris roseis.

 $\it Hab.$ in foliis languidis Brassicæ Napi et oleraceæ, in Belgio, Gallia et Lusitania. — Sec. Curr. sporulæ 5 $\it \mu.$ longæ; maculæ initio centro fuscæ virescenti-marginatæ.

208. Phyllosticta Erysimi West. Bull. Soc. bot. Belg. II. 245. — Ma- 208 culis expallentibus, zona crassiuscula, fusca limitatis; peritheciis numerosis, conspicuis, innatis, atris, poro pertusis, ad centrum maculæ sitis; sporulis ovoideis, hyalinis, biguttatis., 10 μ. longis.

Hab. in foliis Erysimi Alliariæ, in Belgio et Britannia.

209. Phyllosticta anceps Sacc. Mich. I. p. 532. — Maculis amphi- 209 genis, subcircularibus, minutis, initio atroviridibus, dein albolute-scentibus, fusco-marginatis; peritheciis globoso-lenticularibus, subvelatis, 80-90 μ. diam., pertusis; sporulis botuliformibus, 4-5 = 1-13/4, minute 2-guttulatis, hyalinis.

Hab. in foliis Nasturtii ancipitis et amphibii, in Gallia. 210. Phyllosticta Capparidis Sacc. et Speg. Mich. I. p. 139. — Maculis amphigenis, variis, arescendo dealbatis, margine elevato ochraceo cinctis; peritheciis sparsis, lenticularibus, 100 μ . diam., pertusis, minute parenchymaticis, fuligineis; sporulis oblongo-ovoideis, intequalibus, $8-12 \approx 3-4^{1}/_{2}$, hyalinis.

Hab. in foliis Capparidis rupestris, Conegliano in Italia boreali.

211. Phyllosticta Epimedii Sacc. Mich. I. p. 149. — Maculis majusculis 211 irregularibus, ochraceis, rufo-cinctis; peritheciis sparsis, punctiformibus, pertusis; sporulis oblongo-ellipsoideis, $6 \approx 1 \frac{1}{2}$ -2, 2-guttulatis, hyalinis.

Hab. in foliis Epimedii alpini, in silva Montello in Italia boreali.

212. Phyllosticta Tropæoli Sacc. et Speg. Mich. I. p. 152. — Maculis 212 obsoletis; peritheciis gregariis, punctiformibus, epidermide prominula velatis, globoso-lenticularibus, 200 μ . diam., pertusis; contextu laxiuscule celluloso, late fuligineo; sporulis ovoideo-oblongis, $6-10 \approx 3-4$, subinæqualibus, nubilose hyalinis.

Hab. in foliis Tropæoli majoris, Conegliano in Ital. bor., in Lusitania et Austria.

213. Phyllosticta Oxalidis Sacc. Mich. I. p. 142. — Maculis variis, are-218 scendo candicantibus, fuligineo-marginatis; peritheciis sparsis, paucis, punctiformibus, globoso-lenticularibus, pertusis, laxe cellulosis; sporulis e globoso ovoideis, 4 = 3, hyalinis.

Hab. in foliis Oxalidis Acetosellæ, Conegliano in Italia boreali. - Forte spermogonium Sphærellæ Selenes Sacc.

214. Phyllosticta destructiva Desm. Ann. S. N. 1847, pag. 29. — 214 Maculis subcircularibus, subochraceis, fusco-marginatis; peritheciis epiphyllis concentricis, lutescentibus v. olivaceis, dein atris: sporulis ovoideis v. oblongis, subhyalinis, 2-guttatis; cirro carneo.

Hab. in foliis Malvæ, Althææ, Lycii, Evonymi, in Gal-

lia, Belgio, Austria, Italia.

215. Phyllosticta althæina Sacc. Mich. I. p. 143. — Maculis sinuosis, 215 arescendo expallentibus, anguste fusco-marginatis; peritheciis sparsis, punctiformibus, lenticularibus, 90 \mu. diam., pertusis, laxiuscule ochraceo-cellulosis; sporulis oblongo-ovoideis, 6-7 = 3-4, rarius curvulis, 2-guttulatis, hyalinis.

Hab. in foliis Althew rosew, in Italia boreali et Gallia. — Legi quoque in ejusdem caule, ubi maculas albidas similes efficit.

216. Phyllosticta Tormentillæ Sacc. Mich. I. p. 159. — Maculis palli- 216 de ochraceis, irregularibus, margine subconcolori; peritheciis punctiformibus, lenticularibus, sparsis; sporulis breve ellipsoideis minutissimis, $3 \approx 2^{1}/_{2}$, e hyalino fuscidulis.

Hab. in foliis Tormentillæ erectæ, in silva Montello in Italia boreali. - A Phyll. potentillica Sacc., Phyll. fragaricola

Desm. etc. tute diversa.

217. Phyllosticta potentillica Sacc. Mich. I. p. 139. — Maculis subcir- 217 cularibus angulosisve, arescendo dealbatis, anguste fusco-marginatis; peritheciis remotis, punctiformibus, pertusis; sporulis cylindraceo-botuliformibus, $5 \approx \frac{3}{4}$, curvulis, hyalinis.

Hab. in pag. sup. foliorum Potentillæ reptantis, Selva in Italia boreali. - Ab Ph. fragaricola Desm. et Rob. sporulis

curvulis et angustioribus differt.

218. Phyllosticta? Argentinæ Desm. Ann. S. N. 1847, pag. 30. Kickx 218 Crypt. I. 415. — Peritheciis sparsis, exiguis, nitentibus; maculis rubescentibus, indeterminatis, denique totum folium fere invadentibus; sporulis..... non observatis.

Hab. in foliis Potentillæ anserinæ, in Gallia, Belgio et Sibiria.

219. Phyllosticta fragaricola Desm. et Rob. p. p. (ut videtur) Plant. 219 Crypt. III. n. 686. Mich. I. pag. 140. — Maculis vagis, arescendo dealbatis, sanguineo-marginatis; peritheciis punctiformibus, remote sparsis; sporulis oblongo-ovoideis, $5 \approx 1^{1}/_{2}-2$, rectis, eguttulatis, hyalinis.

Hab. in pag. sup. foliorum Fragariæ chiloensis et Fr. vescæ, in Gallia, Italia, Germania et Austria.

220. Phyllosticta Arunci Sacc. Fungi Ven. Ser. V. 300. Mich. I. 220 pag. 143. — Maculis arescendo dealbatis, amphigenis, circulariangulosis, sæpius fusco-cinctis; peritheciis lenticularibus, punctiformibus, late pertusis; sporulis ovoideo-oblongis, $5 \approx \frac{3}{4}$, hyalinis.

Hab. in foliis Spirææ Arunci, Selva in Italia boreali, socia

Sphærella Dejanira Sacc., cujus est spermogonium.

221. Phyllosticta Filipendulæ Sacc. Mich. I. p. 145. — Maculis epiphyllis, subcircularibus, arescendo dealbatis, atrosanguineo-marginatis; peritheciis sparsis, punctiformibus, 80-90 μ . diam., lenticularibus, pertusis, contextu minute parenchymatico; sporulis cylindraceo-oblongis, $4 \approx 2$, 2-nucleatis, hyalinis.

Hab. in foliis Spirææ Filipendulæ, Conegliano in Italia

boreali.

222. Phyllosticta filipendulina Sacc. et Speg. Mich. I. p. 150. 276. — 222 Maculis arescendo fuligineis, subcircularibus; peritheciis gregariis, globoso-lenticularibus, 200-250 μ . diam., solidiusculis, latiuscule pertusis; sporulis oblongo-ellipsoideis, $5-6\approx 2-2^{1}/_{2}$, rectis curvulisque, nubilose hyalinis.

Hab. in foliis Spirææ Filipendulæ, Susigana in Italia boreali. — Var. Ulmariæ Sacc. In foliis Spirææ Ulmariæ,

Rouen in Gallia (LETENDRE).

223. Phyllosticta Ulmariæ Thüm. Pilzfl. Sibir. n. 806. — Perithe-223 ciis epiphyllis, sparsis vel solitariis, mediis, hemisphæricis, postremo liberis exsertisve, atris in macula minima, irregulari, arescendo candida, latissime sordide fusco cincta; sporulis cylindricis, numerosissimis, enucleatis, utrinque truncato-rotundatis, hyalinis, $3.5-5\approx 2-2.5$.

Hab. in foliis vivis Spirææ Ulmariæ, in pratis pr. Ssamodourowka in Sibiria.

224. Phyllosticta phaseolina Sacc. Mich. I. p. 149. — Maculis am- 224 plis, vagis, arescendo ochraceis; peritheciis sparsis, lenticularibus, 70 μ . diam., pertusis; sporulis ovoideo-oblongis, $6 \approx 2^{\text{I}}/_2$, rectis, rarius inequilateralibus, hyalinis.

Hab. in foliis Phaseoli vulgaris, Selva in Italia boreali, et

Ph. diversifolii in Amer. bor.

225. Phyllosticta Phaseolorum Sacc. et Sp. Mich. I. p. 160. — Ma-225 culis versiformibus, amplis, arescendo ochraceis; peritheciis punctiformibus, lenticularibus, 100 μ . diam., pertusis, fuligineis; sporu-

lis ovoideo-oblongis, rectis curvulisve, $5-6 \approx 3-3 \frac{1}{2}$, chlorino-olivaceis.

Hab. in foliis Phaseoli vulgaris, Costa in Italia bor. — An status alter v. provectus Ph. phaseolinæ Sacc.?

226. Phyllosticta orobina Sacc. Mich. I. p. 149. — Maculis sinuosis, ²²⁶ variis, dilute ochraceis, brunneo-cinctis; peritheciis punctiformibus, pertusis; sporulis ovoideis, 3 ≈ 1, 2-guttulatis, hyalinis.

Hab. in foliis Orobi verni, in silva Montello in Ital. bor.,

socia Ascochyta Orobi.

227. Phyllosticta orohella Sacc. Miscel. mycol. p. 25. — Maculis ex. 227 pallentibus, variis, non marginatis; peritheciis gregariis, punctiformibus, initio tectis, 80-100 μ. diam.; sporulis oblongis, inæquilateris, utrinque rotundatis, biguttulatis, hyalinis, 7-7.5 = 3.

Hab. in foliis Orobi verni, Neuchatel in Helvetia (MORTHIER).

- A Ph. orobina Sacc. prorsus diversa.

228. Phyllosticta Medicaginis (Fuck.) Sacc. Ascochyta Medicaginis 228

Fuck. Symb. myc. p. 388. — Peritheciis immersis, atris, perforatis, apice globulum diaphanum gerentibus, in macula aurantiaca; sporulis minimis, cylindraceis, curvatis, hyalinis.

Hab. in foliis adhuc vivis Medicaginis sativæ et falcatæ,

in Germania et Italia.

229. Phyllosticta minussinensis Thüm. Pilz. fl. Sib. n. 803. — Pe- 229 ritheciis hypo-raro etiam epiphyllis, dense gregariis, punctiformibus, conico-semiimmersis, nitido-atris in macula indistincta, sordide ochracea, non marginata, irregulari, postremo in folii pagina superiore maculam lacteam efficiente; sporulis ovoideis, minutis, numerosis, utrinque rotundatis, enucleatis, hyalinis, 3,5-4,5 ≥ 1,5-2.

Hab. ad folia viva et languida Lathyri pisiformis, in sil-

vis pr. Patroschilowo in Sibiria.

230. Phyllosticta lathyrina Sacc. et Wint. Hedw. 1883, n. I, p. 1.— 230 Maculis amphigenis, difformibus, ochraceo-pallidis, ferrugineo-marginatis; peritheciis innato-prominulis, tenui-membranaceis, 120-140 μ. diam., pertusis, pallide fuligineis; sporulis oblongo-ellipsoideis, utrinque rotundatis, 5-7 ≈ 2-3,5, continuis, hyalinis, eguttulatis.

Hab. ad folia viva Lathyri silvestris, in consortio Septoriæ fulvescentis Sacc., in fruticetis prope Zürich in Helvetia.

231. Phyllosticta Fabæ West. Bull. Soc. Belg. Ser. II. t. XII. n. 7. 231
 — Maculis fusco-fuligineis, centro dein expallentibus, usque 2 cent. longis, subrotundis v. elongatis, zona sanguinea cinctis; peritheciis

Sphærioideæ, Hyalosporæ, Phyllosticta.

43

sat copiosis, brunneis, epiphyllis, poro pertusis; sporulis ovato-oblongis, hyalinis, 2-guttatis, $10 \approx 5$.

Hab. in foliis Fabæ vulgaris, prope Namur in Belgio (BARBIER).

- 232. Phyllosticta Viciæ (Lib.) Cooke Handb. n. 1345, Ascochyta Vi- 232 ciæ Lib. Exs. n. 356, Phyll. Ervi West.? - Maculis subcircularibus, pallidis, purpureo-marginatis; peritheciis epiphyllis, minutis, aggregatis, atris, pertusis; sporulis ellipsoideis, 2-guttulatis, hyalinis.
- Hab. in foliis Viciæ sepium, in Belgio, Gallia et Britannia. 233. Phyllosticta Pisi West. Bull. Ac. Belg. Ser. II. t. XII. n. 7. - 233 Maculis subcircularibus v. oblongis, fusco-ochraceis, centro dein expallentibus, atro-marginatis; peritheciis in centro sitis paucis, poro pertusis: sporulis ovoideis, hyalinis, 2-guttulatis.

Hab. in pag. inferiore foliorum Pisi sativi, in Belgio.

234. Phyllosticta Astragali Peck Bot. Gaz. Oct. 1881, p. 275. - 234 Maculis obsoletis; peritheciis numerosis, seepius amphigenis, 180-230 µ. diam., epidermide fissa subvelatis, poro circulari pertusis; sporulis oblongis v. oblongo-fusoideis, hyalinis, 13-16 = 3.

Hab. in foliis vivis vel emortuis Astragali, in Canada (MACONN).

235. Phyllosticta Saponariæ (Fuck.?) Sacc. Mich. I. p. 154. Ascochyta 235 Saponarice Fuck. Symb. 388? — Maculis nullis v. obsoletis; peritheciis epiphyllis, hinc inde maculiformiter densissime aggregatis, punctiformibus, globuloso-prominulis, 80 p. diam., pertusis, aterrimis; sporulis tenuissimis, cylindraceis, rectiusculis, $4 \approx 1/2$, hyalinis.

Hab. in foliis Saponariæ officinalis, socia Septoria, Selva in Italia bor, et in Germania.

236. Phyllosticta nebulosa Sacc. Mich. II. p. 276. — Maculis obsoletis, 236 expallentibus; peritheciis hinc inde in cohortes dense aggregatis, punctiformibus, innato-erumpentibus, 80 µ. diam.; sporulis oblongo-ovoideis, $6-7 \approx 1^{1}/_{4}-2$, hyalinis.

Hab. in foliis languidis vel emortuis Silenes pendulæ, in hortis Padova in Italia bor.

237. Phyllosticta Dianthi West. Exs. n. 293, Kickx Fl. cr. Fl. I. 411. - Maculis albidis, sæpe confluentibus; peritheciis epiphyllis, perexiguis, numerosis, fuscis, in centro maculæ sitis; sporulis ellipsoideis, 3-guttulatis; cirris albis.

Hab. in foliis languidis Dianthi barbati, in hortis Belgii.



238. Phyllosticta Cirsii Desm. Ann. S. N. 1847, p. 31, Kickx Flandr. 238 I. 414. — Maculis epiphyllis, variis, subcircularibus, arescendo cinerescentibus, fusco-cinctis; peritheciis innatis, sparsis, nigris; sporulis oblongo-ovoideis, 5-7 ≈ 2¹/₂-3, 2-guttulatis, hyalinis.

Hab. in pag. sup. foliorum Cirsii lanceolati et arvensis,

in Italia bor., Gallia, Belgio et Britannia.

239. Phyllosticta profusa Sacc. Mich. I. p. 260. — Maculis plerumque 239 epiphyllis, arescendo obsolete candicantibus, confluentibus, demumque totam fere paginam occupantibus; peritheciis densiuscule et æqualiter gregariis, punctiformibus, globoso-lenticularibus, $100~\mu$. diam., pertusis; sporulis oblongis, $4-5\approx 2$, utrinque obtuse rotundatis, obsolete 2-guttulatis, hyalinis.

Hab. in foliis emortuis Cirsii arachnoidei, in horto Patavino Italiæ bor. — A Phyll. Cirsii Desm. statim dignoscenda.

240. Phyllosticta Sonchi Sacc. Mich. I. p. 141. — Maculis arescendo 240 dealbatis, non marginatis, variis; peritheciis paucis, punctiformibus, lenticularibus, pertusis, $100~\mu$. diam.; sporulis oblongo-ovoideis, $7-71/4 \approx 31/2$, rectis curvulisve, 2-guttulatis, hyalinis.

Hab. in foliis Sonchi oleracei, Conegliano in Italia bor.

241. Phyllosticta Leucanthemi Speg. Nov. Add. n. 153, Mich. II. 241 p. 277. — Maculis albo-griseis, circularibus, centro perithecia globosa, prominula, minuta, $120-130~\mu$. d., membranacea, contextu laxe parenchymatico, fuligineo, gerentibus; sporulis cylindraceo-ellipticis vel ovoideis, $4-5 \approx 1^{1}/_{2}$, granuloso-farctis, hyalinis.

Hab. in foliis Chrysanthemi Leucanthemi, in pratis

prope Ampezzo in Italia bor.

242. Phyllosticta Lappæ Sacc. Mich. I. p. 151. — Maculis subcircu-242 laribus sinuosisque, arescendo griseo-brunneis, saturatius marginatis; peritheciis remotiusculis, punctiformibus, lenticularibus, 70 μ. diam., contextu lutescenti; sporulis ovoideo-oblongis vel subreniformibus, 6 ≈ 3, hyalinis.

Hab. in foliis Lappæ minoris, Selva in Italia bor.

243. Phyllosticta lacobæa Sacc. Mich. I. p. 149. — Maculis vagis, 243 obtuse angulatis, arescendo ochraceis; peritheciis punctiformibus, remotis; sporulis ovoideis vel breviter oblongis, $5 \approx 2$, eguttulatis, hyalinis.

Hab. in foliis Senecionis Iacobææ, in silva Montello in Italia bor.

244. Phyllosticta Hualtatæ Speg. F. Argent. Pug. IV. n. 271. — Ma- 244 culis suborbicularibus, determinatis, 3-15 mill. diam., arescendo

albicantibus, amphigenis; peritheciis amphigenis, centralibus, lenticularibus, 90-100 μ . diam., tenuissime membranaceis, contextu parenchymatico, olivaceo-fuligineo, ostiolo latiusculo perforatis; sporulis ellipticis vel elliptico-ovoideis, utrinque obtusiusculis, 8-10 \approx 3-4, non vel 2-guttulatis, hyalinis.

Hab. in foliis vivis Senecionis Hualtatæ, ad ripas del Rio de la Plata, prope la Recoleta.

245. Phyllosticta Farfaræ Sacc. Fungi Ven. Ser. II. 302. Mich. I. 245 p. 143. — Maculis epiphyllis, irregularibus, arescendo albicantibus, zona elevata atropurpurea cinctis; peritheciis punctiformibus, lenticularibus, 80 μ. diam.; sporulis ellipsoideis vel ovoideis, 5-6 \approx 3, 2-guttulatis, hyalinis.

Hab. in foliis Tussilaginis Farfaræ, Covolo in Italia bor, socia Sphærella Pieride Sacc., cujus est spermogonium.

246. Phyllosticta eupatorina Thum. Contr. fl. myc. Lusitan. — Pe- ²⁴⁶ ritheciis epiphyllis, minutissimis, semiimmersis, punctiformibus, globosis, nigris, sparsis in macula plus minusve orbiculari, arescendo cinerescenti, late fumoso-purpureo-cincta; sporulis ellipsoideis, utrinque rotundatis, enucleatis, continuis, dilute griseo-hyalinis, 6 ≈ 2,5-3.

Hab. in foliis vivis Eupatorii speciei indeterminatæ, Coimbra in Lusitania in horto botanico (Moller).

247. Phyllosticta Cynaræ West. Exs. n. 1140, Kickx Flandr. I. 414. 247

— Peritheciis epiphyllis, exiguis, numerosis, fuscis, sparsis; maculis cinereo-fuligineis, subcircularibus, concentrice lineatis; sporulis ovoideis, hyalinis, 10 = 5.

Hab. in foliis Cynaræ, in Belgio.

248. Phyllosticta Aronici Sacc. Syll. I. 538. — Epiphylla; peritheciis 248 dense gregariis, globosis, sub foliorum epidermide nidulantibus, aterrimis, perforatis; sporulis cylindraceis, continuis, hyalinis, 8 = 2.

Hab. socio Fusicladio Aronici in foliis nondum emortuis Aro-

nici scorpioidis, in Helvetia et Italia.

249. Phyllosticta Arnicæ Fuck. Symb. myc. App. III. p. 36 (sub A- 249 scochyta). — Epiphylla, maculam obscuriorem luteo-limitatam formans; peritheciis aggregatis, mox cupulæformibus, carbonaceis, marginalibus adhuc clausis, sporulas cylindraceas, rectas, $6 \approx 1$, includentibus.

Hab. in pag. sup. foliorum Arnicæ montanæ, St. Moritz in Helvetia, socia Septoria Arnicæ Fuck.

250. Phyllosticta Laserpitii Sacc. Mich. I. p. 145. — Maculis epi- 250

phyllis, minutis, griseo-albicantibus; peritheciis sparsis, punctiformibus, 90-100 u. diam., lenticularibus, pertusis; sporulis ellipsoideo-oblongis, $4-5 \approx 2^{1}/_{2}-2^{3}/_{4}$, rectis, 2-guttulatis, hyalinis.

Hab. in foliis Laserptii latifolii cum Passalora depressa, in montanis Tarvisinis Italiæ bor. (A. de Bérenger).

251. Phyllosticta Bupleuri (Fuck.) Sacc., Depazea Bupleuri Fuck. 251 Symb. 382, Rev. Myc. V. 11. t. XXXV. f. S. — Macula exarida, grisea; peritheciis conicis, numerosis, atris, poro pertusis; sporulis ovoideis, copiosis, hyalinis, tunica obscuriore.

Hab. in foliis vivis Bupleuri falcati, in Germania prope Œstrich, et Bupleuri gibraltrarici in Algeria.

252. Phyllosticta Angelicæ Sacc. Mich. II. p. 620. — Peritheciis ma- 252 culiformi-aggregatis, lenticularibus, pertusis, 80-90 p. diam., laxe contextis; sporulis oblongis, minutissimis, 4-5 = 1, hyalinis.

Hab. in foliis Angelicæ silvestris, in Gallia et Italia. - Spermogonium Phyllachoræ Angelicæ (Fr.) Fuck. - Sphæria (Sphæropsis) Egopodii Curr. Simpl. Sphær. p. 332: sporulis minutis, cylindraceis, 5 μ . longis, verisimiliter est varietas in Æg opodii Podagrariæ foliis vigens et ad Phyllachoram Podagrarice pertinens.

253. Phyllosticta Scrophulariæ Sacc. Mich. I. pag. 159. — Maculis 253 vagis, ochraceis, margine subconcolori; peritheciis punctiformibus, sparsis; sporulis ellipsoideis, utrinque obtusis, 5 = 3, e hyalino fuscidulis.

Hab. in foliis Scrophulariæ nodosæ, Selva in Italia bor. - Var. Veronicæ speciosæ. Sporulæ ellipsoideæ, 5-6 = 31/4, quandoque medio lenissime contractæ, olivaceæ. In ejusdem foliis, Perpignan in Gallia.

254. Phyllosticta scrophularinea Sacc. Mich. I. p. 141. — Maculis 254 minutis angulosis, arescendo candicantibus, late rufo-cinctis; peritheciis punctiformibus, lenticularibus, 90-100 p. diam., sparsis; sporulis oblongis, rectis curvulisve, minutissimis, 3-4 = 1, utrinque rotundatis, hyalinis.

Hab. in pag. sup. foliorum Scrophulariæ nodosæ, Selva in Italia bor. — A Phyll. Scrophularice Sacc. et Phyll. Ehrhartii Sacc. probe distincta.

255. Phyllosticta Ehrhartii Sacc. Mich. I. p. 140. -- Maculis arescen- 255 do dealbatis, sinuosis, sanguineo-marginatis; peritheciis epiphyllis, punctiformibus, remote sparsis, lenticularibus; sporulis oblongoovoideis, $4-5 \approx 3$, hyalinis.

Hab. in foliis Scrophulariæ Ehrhartii, Selva in Italia boreali.

256. Phyllosticta Digitalis Bell. in West. Exs. n. 1053. — Maculis 256 subcircularibus vel irregularibus, sparsis, confluentibusque, cinerescentibus, vinoso-marginatis; peritheciis parcis, semiimmersis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttatis, 7 = 2,5.

Hab. in pag. sup. foliorum Digitalis luteæ, in Belgio.

257. Phyllosticta Linariæ Sacc. Mich. II. p. 588. — Maculis subcir- 257 cularibus, arescendo dealbatis, anguste rufo-marginatis; peritheciis sparsis, punctiformibus, lenticularibus, pertusis, vix 100 μ . diam.; sporulis ovoideo-oblongis, $4 \approx 2^{1}/_{2}$, hyalinis.

Hab. in foliis Linariæ Elatines, Saintes in Gallia (Brunaud).

258. Phyllosticta Verbenæ Sacc. Mich. I. pag. 530. — Maculis epi- 258 phyllis, variis, arescendo cinerescentibus v. albicantibus; peritheciis punctiformibus, lenticularibus, 80 μ . diam., pertusis; sporulis oblongis, curvulis, $5 \approx 1 - 1\frac{1}{4}$, hyalinis, coacervatis viridulis.

Hab. in foliis Verbenæ officinalis, Alençon in Gallia (GILLET).

259. Phyllosticta Verbasci Sacc. Mich. I. p. 531. — Maculis parvis, 259 arescendo expallentibus, epiphyllis; peritheciis punctiformibus, sparsis; sporulis oblongis, 6 = 3, utrinque obtusis, medio parum constrictis, continuis, hyalinis.

Hab. in foliis Verbasci, Alençon in Gallia (GILLET).

260. Phyllosticta Martyniæ Thüm. Contr. Fl. myc. Lusit. — Peri- 260 ritheciis epiphyllis, dense gregariis, parvulis, conoideo-emersis, olivaceis, primo longe diu tectis, dein prominulis in macula plus minusve orbiculari, exarida, concentrice zonata, e griseo subrosea, anguste fusco-marginata; sporulis ellipticis, continuis, utrinque rotundato-obtusatis, enucleatis, achrois, 5-6 ≈ 3.

Hab. ad folia viva Martyniæ luteæ, Coimbra in Lusitania in horto botanico (Moller).

261. Phyllosticta Petuniæ Speg. Nov. Add. n. 155, Mich. II. p. 278. 261 — Maculis fuligineis, circularibus, dein angulosis, amorphis, concentrice saturatius et rugulose zonatis; peritheciis centro macularum insidentibus, tenui-membranaceis, contextu laxe parenchymatico, fuligineo; sporulis ellipticis vel ovoideis, continuis, hyalinis, $3-5 \approx 1^{1}/_{2}-2$.

Hab. in foliis languidis Petuniæ cujusdam speciei cultæ in hortis. Belluno in Italia boreali.

262. Phyllosticta Physaleos Sacc. Mich. I. p. 150. — Maculis subcir- 262 cularibus, arescendo ochraceis, brunneo-marginatis; peritheciis punctiformibus, remotiusculis, lenticularibus, 80 μ. d., pertusis, contextu subferrugineo, minute celluloso; sporulis oblongo-ovoideis, 7-8 $\approx 3^{1}/_{\circ}$ -4, crassiuscule 2-guttulatis, hyalinis.

 $\it Hab.$ in foliis Physaleos Alkekengi, in silva Montello in Italia bor. — Var. calycicola Speg. F. Arg. Pug. IV. n. 272. maculis determinatis, majusculis, irregularibus, candidis; peritheciis lenticularibus, 150-180 μ . d., atris, ostiolo impresso pertusis, contextu parenchymatico, olivaceo; sporulis ellipticis, utrinque attenuato-acutatis, $8-10 \approx 3$, et grosse 2-guttulatis, hyalinis. — In calycibus fructiferis Physalidis viscosæ, in sepibus, Boca del Riachuelo in Argentina.

263. Phyllosticta Julia Speg. F. Arg. Pug. II. 120. — Maculis can-263 didis, orbicularibus, magnitudine variabilissimis; peritheciis minutissimis, 80-90 μ . d., atris globoso-depressis, membranaceis, contextu densiuscule parenchymatico-olivaceis, fuligineis; sporulis ellipticis, utrinque obtusis, sæpe inæquilateralibus, simplicibus, hyalinis, $6-9 \approx 3-4$.

Hab. ad folia languida Daturæ discoloris, in horto publico del Paseo de Julio in Argentina.

264. Phyllosticta Tabaci Pass. Critt. Tabacco n. 1. — Foliis primo 264 variegatis et paullulum bullatis, deinde areolis exaridis candidis, irregularibus, subconfluentibus, disseminatis; areolis sæpe sterilibus, nonnullis autem medio sordescentibus, ibique perithecia atra punctiformia foventibus et mox laceratis; sporulis ovoideis, rectis, hyalinis, 7 ≈ 3.

Hab. ad folia Nicotianæ Tabaci, pr. Parma in Ital. bor. 265. **Phyllosticta capsulicola** Sacc. et Speg. Mich. I. p. 152. — Ma-265 culis obsoletis; peritheciis gregariis, punctiformibus, lenticularibus, $70 \approx 100$, pertusis; contextu parenchymatico dilute fuligineo; sporulis ovoideis, curvulis, $7-11 \approx 3-4^{1}/_{2}$, 1-2-guttulatis, hyalinis.

Hab. in capsulis Nicotianæ Tabaci, Conegliano in Ital. bor. 266. Phyllosticta Aratæ Speg. Fung. Arg. Pug. II. n. 117. — Ma- 266 culis griseo-fuscescentibus vel griseo-subochraceis, centro intensius coloratis, orbicularibus, concentrice rugulosis, $^{1}/_{2}$ -2 cent. d.; peritheciis lenticulari-globosis, 90-100 μ ., atris, ostiolo parvulo perforatis, submembranaceis, contextu minute parenchymatico, fuligineo-olivaceo; sporulis elliptico-cylindraceis, utrinque obtusis, simplicibus, hyalinis, 7-10 \approx 3-4, rectis vel curvulis.

Hab. in foliis vivis Solani glauci, in pratis humidis cerca de la Boca del Riachuelo in Argentina (Schnyder).

267. Phyllosticta hortorum Speg. Nov. Add. n. 154, Mich. II. p. 277. 267

— Maculis circularibus indeterminatis, fulvis, centro griseis, amphigenis, denique circumscissis; peritheciis centralibus, minutis, 80-90 μ. diam., lenticulari-globosis, contextu tenui, membranaceo, fuscidulo-olivaceo, poro pertusis; sporulis ellipticis vel ovoideis, continuis, utrinque rotundatis, hyalinis, 4-6 ≈ 2-2¹/₀.

Hab. in foliis vivis Solani Melongenæ, in hortis Belluno

in Italia boreali.

268. Phyllosticta Dulcamaræ Sacc. Mich. I. p. 160. — Maculis versiformibus, sæpe marginalibus, arescendo brunneis; peritheciis epiphyllis sparsis, lenticularibus, punctiformibus, 80-90 μ . diam., pertusis; sporulis globoso-ellipsoideis, inæqualibus, 5-6 \approx 3, e hyalino chlorinis.

Hab. in foliis Solani Dulcamaræ, Selva in Italia boreali, socia Septoria.

269. Phyllosticta Pseudo-capsici Roum. Rev. Myc. IV. 152. — Ma- 269 culis albido-ochraceis, subcirculari-sinuosis, sæpius marginalibus, fulvo-marginatis; peritheciis amphigenis, punctiformi-lenticularibus, atris, pertusis; sporulis ellipsoideis, 8-10 ≈ 4, subhyalinis.

Hab. in foliis languidis Solani Pseudo-capsici culti,

Saint-Caprais prope Toulouse in Gallia.

270. Phyllosticta Solani Ell. et Mart. Amer. Nat. 1882, p. 100. — 270 Maculis pallide fuscis, obscurius marginatis; peritheciis atris, innatis, amphigenis, 90 μ . diam., parte superiori deciduis; sporulis subhyalinis, oblongis, $9 \approx 2$.

Hab. in foliis Solani cujusdam, Lexington in America bor.

(W. A. KELLERMANN).

271. Phyllosticta Teucrii Sacc. et Speg. Mich. I. p. 144. — Maculis 271 variis, arescendo albidogriseis; peritheciis gregariis, punctiformibus, lenticularibus, late pertusis, contextu distincte parenchymatico, olivascente; sporulis cylindraceis, minutissimis, $4-5 \approx 1-1^3/4$, quandoque curvulis, hyalinis.

Hab. in foliis Teucrii Chamædryos, Conegliano in Ita-

lia boreali.

272. Phyllosticta Lamii Sacc. Mich. I. p. 142. — Maculis vagis, la-272 tiusculis, arescendo dealbatis, zona plus vel minus lata ochracea cinctis; peritheciis remote sparsis, punctiformibus, pertusis, laxiuscule cellularibus, lutescentibus; sporulis oblongis, utrinque obtu-

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Sphærioideæ, Hyalosporæ, Phyllosticta.

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siusculis 1-guttulatisque, $7 \approx 3$, hyalinis; basidiis filiformibus, acuminatis, $5 \approx 2$, suffultis.

Hab. in foliis Lamii Orvalæ et L. albi, Selva in Italia bor, et in Sibiria.

-273. Phyllosticta Glechomæ Sacc. Mich. I. p. 151. — Maculis variis, 273 sinuosis, arescendo brunneis; peritheciis sparsis, punctiformibus, lenticularibus, pertusis; sporulis oblongis, utrinque rotundatis, $7 \approx 3-3\frac{1}{2}$, rectis vel curvulis, 2-guttulatis, hyalinis.

Hab. in foliis Glechomæ hederaceæ, Selva in Italia bor. 274. Phyllosticta infuscata Winter Cont. Myc. Lus. n. 799. — Ma-274 culis determinatis, irregularibus, plerumque angulato-rotundatis, fuscidulis, margine obscuriore purpureo-fusco cinctis, demum in centro albidis, usque 6 mill. lat.; peritheciis sparsis, punctiformibus, subglobosis, atris, membranaceis; sporulis oblongis, interdum ovatis, hyalinis, continuis, 3,5-4,5 ≈ 2.

Hab. ad folia viva Teucrii Scordii, prope Caldas do Gerez in Lusitania.

275. Phyllosticta Galeopsidis Sacc. Mich. I. p. 150. — Maculis are- 275 scendo dilute ochraceis, versiformibus, margine concolori; peritheciis minutissimis, lenticularibus, 60 μ . diam., pertusis; sporulis oblongis, sæpe inæquilateralibus, utrinque rotundatis, $4 \approx 3$, 2-guttulatis, hyalinis.

Hab. in foliis Galeopsidis versicoloris, Selva in Italia boreali, socia Sphærella.

276. Phyllosticta Ajugæ Sacc. et Speg. Mich. I. p. 150. — Maculis ²⁷⁶ versiformibus, latiusculis, arescendo dilute ochraceis, fusco-cinctis; peritheciis sparsis, globulosis, prominulis, 90-100 μ. diam., pertusis; contextu laxe parenchymatico fuligineo; sporulis ovato-ellipsoideis, 7-8 ≈ 3, rectis curvulisve, hyalinis, quandoque 2-guttulatis.

Hab. in foliis Ajugæ reptantis, Conegliano in Italia bor. (Spegazzini).

277. Phyllosticta Quamoclit Thüm. Contr. Fl. myc. Lusitan. — Peritheciis epiphyllis, solitariis, emersis, punctiformibus, submagnis, conico-subglobosis, nigris in macula irregulari, ochraceo-ferruginea, exarida, fusco-griseo-zonata, postremo dilacerata; sporulis late ovoideis, utrinque acutato-rotundatis, enucleatis, dilute griseolis, 12-13 \times 8-9.

Hab. ad folia viva Quamoclit coccineæ, Choupal prope Coimbra in Lusitania (Moller).

278. Phyllosticta Pharbitis Sacc. Mich. I. pag. 144. — Maculis are. 278

scendo expallentibus fusco-cinctis, variis; peritheciis parcis, amphigenis, lentiformibus, $100~\mu$. diam., pertusis; sporulis oblongis, interdum curvulis, $6 \approx 2-3$, 2-guitulatis, hyalinis.

Hab. in foliis Pharbitis hispidæ, Selva in Italia bor. et Rouen in Gallia.

279. Phyllosticta nervisequa Sacc. Mich. I. p. 160. — Maculis nullis vel obsoletis; peritheciis secus foliorum nervos digestis, innatoprominulis, applanatis, oblongis, 120-130 μ . long., 80 lat., minute pertusis, contextu parenchymatico densiusculo fuligineo; sporulis oblongo-cylindraceis, $8-10 \approx 3\frac{1}{2}$, leniter curvulis rectisve, utrinque obtusiusculis, eguttulatis, e hyalino dilutissime olivaceis.

Hab. in foliis Calystegiæ sepium, utraque pagina conspicua, Conegliano in Italia bor.

280. Phyllosticta Calystegiæ Sacc. Mich. I. p. 141. — Maculis sub- 280 circularibus, arescendo cinerescentibus albisve, brunneo-marginatis; peritheciis sparsis, punctiformibus, lenticularibus, 80 µ. diam., pertusis, minute parenchymaticis; sporulis oblongo-ovoideis, 4-5 × 2½-3, hyalinis.

Hab. in pag. sup. foliorum Calystegiæ sepium cum Septoria Convolvuli, Selva in Italia bor.

281. Phyllosticta bataticola Ell. et Mart. Amer. Nat. 1882, p. 1002. 281

— Peritheciis paucis, minutis, nigris; maculis parvis, rotundis albis, purpureo-marginatis; sporulis oblongo-ellipsoideis, 5 ≈ 2.

Hab. in foliis Batatæ edulis, Newfield New Yersey in Amer. bor. — Multo minor quam Ph. Batatæ Cooke.

282. Phyllosticta Batatæ Thum. M. Un. n. 598 (sub Depazea). — 282 Maculas dealbatas vel fuscescentes, plus minusve orbiculatas, aridas, dilabentes, dilute fusco-marginatas, 2,6 mill. d., formans; peritheciis epiphyllis vel etiam amphigenis, sparsis, prominentibus, punctiformibus, plus minusve globosis, atris; sporulis minutis, breviter cylindraceis, utrinque obtusis, binucleatis, hyalinis, 6-8 ≈ 3.

Hab. ad folia viva Batatæ edulis, in Carolina infer. Aiken.

— A Depazea perusta Berk. et Br., quæ Læstadia, etiam in Batata eduli parasitante, diversissima.

283. Phyllosticta Campanulæ Sacc. et Speg. Mich. I. p. 151. — Ma- 283 culis variis, fulvo-ochraceis, fusco-cinctis; peritheciis epiphyllis, sparsis, lenticularibus, 150 μ . diam., pertusis, laxe cellulosis; sporulis ovoideis, $8 \approx 4 \frac{1}{2} = 5$, subinæqualibus, dilute olivaceis.

Hab. in foliis Campanulæ Trachelii, Vittorio in Italia bor.; et Camp. glomeratæ, in Sibiria.

284. Phyllosticta Vincetoxici Sacc. Mich. I. p. 156. — Maculis epi- 284 phyllis, variis, sinuosis, arescendo dealbatis, margine tenui rufescente; peritheciis sparsis, punctiformibus, lenticularibus; sporulis ellipsoideis, 5-6 \times 3-31/2, quandoque inæquilateralibus, olivaceis.

Hab. in foliis Cynanchi Vincetoxici, Vittorio in Italia boreali. — A Phyll. Asclepiadearum West. sporulis coloratis differt.

285. Phyllosticta Asclepiadearum West. Bull. Brux. 1851, pag. 398, 285 Mich. I. pag. 140. — Maculis variis, arescendo griseis albidisque, fusco-cinctis; peritheciis punctiformibus, lenticularibus, 100 μ . d.; sporulis ellipsoideo-oblongis vel subcylindraceis, $4 \frac{1}{2} - 6 \approx 2 \frac{1}{2} - 3$, hyalinis.

Hab. in foliis Cynanchi Vincetoxici, Cadore et in silva Montello in Italia bor.

286. Phyllosticta atro-maculans Speg. Nov. Add. n. 149, Mich. II. 286 pag. 276. — Maculis pallidis, melleis, totum folium occupantibus et arescentibus; peritheciis hinc inde sparsis, circulos stromaticos parvulos, atros, $150-200~\mu$. diam., efficientibus, globoso-lenticularibus, ostiolis pertusis, contextu parenchymatico-membranaceosubindistincto, fuligineo; sporulis elliptico-fusoideis, utrinque acutiuscule rotundatis, 1-pluri-guttulatis, hyalinis, $5-9 \approx 2^{1}/_{2}-3$.

Hab. ad folia arida Cynanchi Vincetoxici, in montanis Tavarsan prope Belluno in Italia bor.

287. Phyllosticta Cucurbitacearum Sacc. Mich. I. p. 145. — Maculis 287 epiphyllis vel amphigenis, variis, arescendo sordide albicantibus; peritheciis punctiformibus, $80-100~\mu$. diam., lenticularibus, pertusis; sporulis oblongis, $5-6\approx 2^{1}/_{2}$, utrinque obtusiusculis, curvulis, 2-guttulatis, hyalinis.

Hab. in foliis Cucurbitæ Peponis, Vittorio in Italia bor. et Rouen in Gallia.

288. Phyllosticta auctumnalis Speg. F. Arg. Pug. II. n. 33. — Ma- 288 culis griseo-arescentibus, orbiculari-difformibus, quandoque zona ochracea vel purpurascenti-ochracea cinctis, ½-1 cent. diam.; peritheciis minutissimis, 80-90, atris, tenuissime membranaceis, contextu laxe parenchymatico, olivaceo, ostiolo latiusculo impresso donatis; sporulis ellipticis vel ovoideis, utrinque obtuse rotundatis, continuis vel rarius 1-septatis, quandoque inæquilateralibus, 8-10 \approx 2-3, hyalinis.

Hab. ad folia languida Trianospermæ ficifoliæ, en la Boca del Riachuelo in Argentina.

289. Phyllosticta Portulacæ Sacc. et Speg. Mich. I. p. 145. — Ma- 289

Sphærioideæ, Hyalosporæ, Phyllosticta.

53

culis subcircularibus, arescendo dealbatis, margine elevato fuscescente; peritheciis lenticularibus, punctiformibus, $50-60~\mu$. diam., pertusis; sporulis ovoideis, $4-5 \approx 3$, 2-guttulatis, hyalinis.

 $\it Hab.$ in foliis Portulacæ oleraceæ, Selva in Italia bor. 290. Phyllosticta Plantaginis Sacc. Mich. I. p. 140. — Maculis sub-290 circularibus, arescendo dealbatis; peritheciis sparsis, punctiformibus, e globoso lenticularibus, 60-80 μ . d., pertusis; sporulis oblongo-ovoideis ovoideisve, $5\approx 2$, hyalinis.

Hab. in foliis Plantaginis majoribus, Selva in Italia bor. — Huc Ascochyta Plantaginis Sacc. Mycol. Ven. pag. 194 sed homonyma species Cesatiana verisimiliter ad Septoriam spectat.

291. Phyllosticta Mercurialis Desm. 17 Not. pag. 25. — Maculis al- ²⁹¹ bis, exaridis, minutis, indeterminatis, interdum confluentibus; peritheciis amphigenis, innatis, pallide succineis, dein fusco-nigricantibus, poro apertis; sporulis hyalinis, rectis, oblongis, utrinque obtusis, 1-septatis, vel 3-4 guttulis repletis, 40-50 μ. longis.

Hab. in foliis languescentibus Mercurialis annuæ, in Gallia et Belgio. — «Ob sporulas magnas et subinde 1-septatas a genere abhorret».

292. Phyllosticta Urticæ Sacc. Mich. I. p. 141. — Maculis subcircularibus sinuosisque, arescendo dealbatis; peritheciis sparsis, punctiformibus, lenticularibus, 60 μ. diam., pertusis, contextu densiuscule parenchymatico; sporulis oblongo-ovoideis, 5-6 ≈ 3½, hyalinis. Hab. in foliis Urticæ dioicæ, Selva in Italia bor.

293. Phyllosticta Humuli Sacc. et Speg. Mich. I. p. 144. — Maculis ²⁹³ variis, arescendo dealbatis; peritheciis punctiformibus, lenticularibus, $80-90 \mu$. diam., anguste pertusis, tenuiter membranaceis flavofuligineis; sporulis oblongis, $6-9 \approx 4-5$, utrinque rotundatis, rectis curvulisve, 1-2-3-guttulatis, hyalinis.

Hab. in foliis languidis Humuli Lupuli, Conegliano in Italia boreali.

294. Phyllosticta Cannabis (Kirchn?) Speg. Nov. Add. n. 150. Depa-294 zea Cannabis? Kirchn. in Lotos 1856, pag. 184. — Maculis epiphyllis, subcircularibus, fuscis, dein expallentibus; sporulis hyalinis, continuis, elliptico-cylindraceis, rectis vel curvulis, minutissimis, 1-2-guttulatis, $4-6 \approx 2-2\frac{1}{2}$.

Hab. In foliis vivis vel languidis Cannabis sativæ, Belluno in Ital. boreali, et in Bohemia.

295. Phyllosticta Gomphrenæ Sacc. et Speg. Mich. I. p. 151. — Ma- 295 culis vagis, latis, amphigenis, arescendo lutescentibus, fusco-cinctis;



peritheciis sparsis, punctiformibus, lenticularibus, pertusis, contextu laxe parenchymatico fuligineo; sporulis oblongo-ellipsoideis, $7-8 \approx 3$, hyalinis.

Hab. in foliis Gomphrenæ globosæ, Conegliano Plezzo in

Italia boreali.

296. Phyllosticta Celosiæ Thum. Contr. Fl. Myc. Lusit. — Perithe- 296 ciis epiphyllis, subgregariis, lenticularibus, fusco-atris, subparvis in macula plus minusve orbiculata, arescenti et dilacerata, pallide ochracea, zonata, fusco-griseo-cincta; sporulis simplicibus, cylindrico-ellipsoideis, utrinque rotundatis, enucleatis, achrois, 6-8,5 \times 2,4-3,2.

Hab. ad folia viva Celosiæ cristatæ, Coimbra in Lusita-

nia in horto botanico (Moller).

297. Phyllosticta Molleriana Thüm. Cont. Myc. Lusit. n. 378. — Pe- ²⁹⁷ ritheciis epiphyllis, punctiformibus, minutis, dense gregariis, fuligineis, subemersis in macula exarida, sinuosa, ochraceo-grisea, magna, rubro-ferrugineo marginata; sporulis ellipticis, utrinque subrotundatis, non nucleatis, rectis, achrois, 5-6 = 3.

Hab. ad folia viva Pyxidii (Amaranthi) melancholici,

Coimbra in Lusitania in horto botanico (Moller).

298. Phyllosticta Betæ Oudem. Ann. Mycol. Neder. 1875-76, p. 6. 298
— Peritheciis exilissimis, innatis tandem poro apertis, in maculis decoloratis sparsis, nucleo gelatinoso; sporulis minutissimis ovoideis, achromis, non nisi aqua adhibita detegendis.

Hab. in foliis Betæ vulgaris cultæ, prope Harderovicum in

Hollandia.

299. Phyllosticta Atriplicis Desm. Ann. Sc. nat. 1851, pag. 298. — 299 Amphigena; maculis orbicularibus, albicantibus, obscurius marginatis, sparsis v. confluentibus; peritheciis epiphyllis, exiguis, numerosis, globosis, innatis, brunneo-atris, poro pertusis; cirris flavidis; sporulis cylindraceo-ovatis, obtusis, rectis curvulisve, 3-6-guttulatis, interdum subtorulosis, hyalinis.

Hab. in foliis Atriplicis et Chenopodii, in Gallia, Germania, Belgio, Britannia. — Dep. atriplicicola Fr. S. M. II. p. 532.

huc spectare videtur.

300. Phyllosticta Polygonorum Sacc. Mich. I. p. 141. — Maculis sub- 300 circularibus, arescendo dealbatis, amœne sanguineo-cinctis; peritheciis punctiformibus, remotiusculis; sporulis e globoso ovoideis, $4 \approx 2-2\frac{1}{2}$, hyalinis.

Hab. in foliis Polygoni Persicariæ, Selva in Ital. bor.

301. Phyllosticta? discors Sacc. et Speg. Mich. I. p. 154. — Ma-301 culis obsoletis; peritheciis densiuscule gregariis, amphigenis, punctiformibus, lenticularibus, atris, $80-120~\mu$. diam., pertusis, basi sæpius setulam unicam vel paucas aciculares, $80-100 \approx 3$, septulatas, fuligineas gerentibus; contextu parenchymatico minuto; sporulis cylindraceis, $20-25 \approx 4-4 \frac{1}{2}$, utrinque rotundatis, rectis v. curvulis, guttulatis v. nubilosis, hyalinis.

Hab. in foliis Rumicis Acetosæ, Conegliano in Ital. bor.

(Spegazzini). — An Vermicularia?

302. Phyllosticta Acetosæ Sacc. Mich. I. p. 151. — Maculis subcir- 302 cularibus, ferrugineo-fuscis; peritheciis epiphyllis, punctiformibus, lenticularibus, gregariis, pertusis; sporulis oblongis v. breve cylindraceis, utrinque obtusis, 4-5 ≈ 2, 2-guttulatis, hyalinis.

Hab. in foliis Rumicis Acetosæ, in Italia boreali.

303. Phyllosticta Chenopodii Sacc. Mich. I. p. 150, vix West. — Ma- 303 culis vagis irregularibus, sparsis v. confluentibus, arescendo ochraceis, subinde fusco-marginatis; peritheciis punctiformibus, lenticularibus, 50 μ . diam., pertusis; sporulis oblongo-ellipsoideis, $5 \approx 3$, hyalinis.

Hab. in foliis Chenopodii polyspermi, Ch. viridis et Ch. urbici in Italia. — Ph. Chenopodii West. sporulis 15-20 pprox

7 potius Septoriam Chenopodii Desm. spectat.

304. Phyllosticta Ambrosioidis Thüm. Contr. Mycol. Lusit. n. 592. 304

— Peritheciis epiphyllis, sparsis vel subsolitariis, conico-globosis, semiimmersis, nigris, punctiformibus in macula plus minusve sinuosa, primo virescenti, postremo exarida, albo-grisea, parvula, fusco-violaceo-marginata; sporulis cylindraceis, utrinque rotundatis, rectis, enucleatis, minimis, hyalinis, 4,5-5 ≈ 1,5.

Hab. in foliis vivis Chenopodii ambrosioidis, Choupal

pr. Coimbra (Moller).

305. Phyllosticta Podophylli (Curtis) Wint. Ascospora Podophylli 305 Curt. in Peck. 23 Rep. in the state Mus. — Maculis amphigenis, angulosis irregularibusque, determinatis, usque 12 (et ultra) mill. latis, interdum confluentibus, fuscis; peritheciis amphigenis, gregariis, plerumque secus nervos dispositis, globosis, atris, $100-120~\mu$. diam.; sporulis fere globosis vel ellipsoideis, hyalinis, guttula oleosa magna præditis, $8-9\approx5-6$.

Hab. ad folia viva Podophylli peltati, Kentucky, Beth-

lehem etc. in America boreali.

306. Phyllosticta Vincæ Thum. Contr. Fl. Myc. Lusit. - Perithecijs

hypophyllis, gregariis, semiimmersis, minutis, globulosis, nigris in macula magna, irregulari, fusco-grisea, anguste cincta, subtus pallidiore, vix arescente; sporulis minutissimis, ellipsoideis vel globoso-ellipticis, simplicibus, enucleatis, $2.5 \approx 1.5-2$, achrois.

Hab. in foliis vivis Vincæ mediæ, St. Antonio dos Olivaes

pr. Coimbra in Lusitania (Moller).

307. Phyllosticta Pulmonariæ (Fuck.) Sacc. Ascochyta Pulmonariæ 307 Fuck. Symb. p. 386. — Peritheciis in macula fusca, gregariis, minutis, conicis, atro-nitidis; sporulis minutissimis, globosis.

Hab. in pag. sup. foliorum Pulmonariæ, in Jura in Helvetia

(MORTHIER).

308. Phyllosticta primulicola Desm. 14 Not. pag. 30. — Maculis am- 308 phigenis, magnis, albidis, exaridis, sæpe luteolo-cinctis; peritheciis epiphyllis, numerosis, prominulis, globosis, nigris, nitidis; sporulis subglobosis, perexiguis (teste Cooke).

Hab. in foliis languescentibus Primulæ veris et el atioris,

in Gallia, Belgio, Britannia.

309. Phyllosticta lutetiana Sacc. Mich. I. p. 159. — Maculis subcir-309 cularibus, arescendo pallide ochraceis, anguste castaneo-cinctis; peritheciis sparsis, punctiformibus, pertusis; sporulis ovoideis, 5 = 4, e hyalino olivaceis.

Hab. in foliis Circææ lutetianæ, Selva in Ital. bor.

310. Phyllosticta hydrophila Speg. Nov. Add. n. 152, Mich. II. p. 277. 310 — Peritheciis in maculis fuscescentibus, subcircularibus, indeterminatis insidentibus, primo parenchymati immersis, dein prominulis, globoso-lenticularibus, minutis, 150-180 μ . d., contextu fuligineo, parenchymatico, densiusculo; sporulis cylindraceo-fusiformibus, arcuato-curvatis, utrinque acutiusculis, hyalinis, $5-7 \approx 11/2$.

Hab. in foliis languidis Nymphææ albæ, in paludosis lito-

ris Veneti.

311. Phyllosticta Globulariæ West. Bull. Ac. Belg. II. Ser. t. XII. 311 n. 7. — Maculis subrotundis, fuscis, centro expallentibus, linea fusco-nigricante cinctis; peritheciis epiphyllis, sparsis, punctiformibus, nigrescentibus, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis.

Hab. in foliis Globulariæ vulgaris, in Belgio (CRÉPIN).

312. Phyllosticta Erythrææ Sacc. et Sp. Mich. I. p. 152. — Macu- 312 lis nullis; peritheciis per totum folium flavescens remote sparsis, globoso-lenticularibus, prominulis, atris; sporulis oblongo-el-

lipsoideis, $7-10 \approx 2^{1/2}-3$, medio sæpe leniter contractis, 2-guttulatis, hyalinis.

· Hab. in foliis Erythrææ Centaurii, Conegliano in Italia boreali.

- 313. Phyllosticta Ebuli (Fuck.) Sacc. Ascochyta Ebuli Fuck. Symb. 313 pag. 386. Peritheciis in maculis expallescentibus, gregariis, conicis, fuscis, apice candidis; sporulis minutis, cylindraceis, simplicibus.
- Hab. in foliis languidis Sambuci Ebuli, in Germania et Ital. 314
 314. Phyllosticta Nesææ Peck. 34 Rep. St. Mus. p. 44. Maculis subcircularibus, sparsis v. confluentibus, pallide rufis; peritheciis hypophyllis, exiguis, numerosis; sporulis oblongis, rectis curvulisve, hyalinis, 7-10 ≈ 2,5.

Hab. in foliis vivis Nesææ verticillatæ, South Ballston in America boreali.

315. Phyllosticta Wigandiæ Thum. Contr. Fung. Lit. n. 206, tab. I. 315 f. 1. — Peritheciis mediis, epiphyllis, semiimmersis, hemisphæricis, sparsis, nigris in macula grisea, exarida, corrosa, parva; sporulis generis, minutis, 8-10 ≈ 4, achrois.

Hab. ad folia viva Wigandiæ imperialis, in calidariis agri Goritiensis.

316. Phyllosticta Phytolaccæ Cooke Grev. XII. p. 25. — Epiphyl. 316 la; maculis orbicularibus, fuscis; peritheciis minutis, semiinnatis, fuscis; sporulis breviter linearibus, obtusis, hyalinis, rectis, 8 = 1,5.

Hab. in foliis Phytolaccæ, in Carolina australi (RAVENEL).

317. Phyllosticta Gillesii Speg. F. Argent. Pug. III. n. 270. — Ma- 317 culis orbicularibus, determinatis, 2-5 mill. diam., arescenti-albescentibus, amphigenis; peritheciis centralibus, epiphyllis, lenticulari-globosis, 70-80 μ. diam, tenuissime membranaceis, contextu parenchymatico, olivaceo-fusco; sporulis ellipticis v. elliptico-cylindraceis, rectis v. curvulis, utrinque obtusiusculis, non v. 1-guttulatis, 7-10 ≈ 3-3,5, hyalinis.

Hab. in dumetis ad folia viva Philibertiæ Gillesii, en los Montes Grandes in Argentina.

318. Phyllosticta Thermopsidis Thüm. Pilzfl. Sibir. n. 802. — Peri- 318 theciis hypophyllis, dense gregariis, sine ordine dispositis, pro ratione magnis, hemisphærico-prominulis, primo tectis, demum liberatis, semiimmersis, nitido-atris in macula magna, irregulari, arescendo sordide fusca; sporulis bacillaribus, utrinque subrotundatis, enucleatis, continuis, rectis, hyalinis, 4-5,5 × 1,5-2.

Hab. in foliis vivis languidisve Ther mopsidis lance olatæ, in desertis prope Minussinsk in Sibiria.

III. In plantis monocotyledoneis et acotyledoneis

319. Phyllosticta ruscicola Dur. et Mont. Fl. Alg. I. p. 611. Desm. 319 Not. XIV. 32. — Maculis subcircularibus vagisve, arescendo albicantibus, brunneo-cinctis; peritheciis minutis, globoso-lenticularibus, initio tectis; sporulis oblongis, $7-8 \approx 3 \frac{1}{2}$, lutescenti-viridulis.

Hab. in cladodiis Rusci aculeati, R. hypophylli, R. androgyni et R. Hippoglossi, socia Leptosphæria Rusci (Wallr.) Sacc., cujus est probabile spermogonium, in Italia, Belgio, Gallia, Britannia, Austria, Lusitania.

320. Phyllosticta Tami Sacc. Mich. I. pag. 142. — Maculis subcir- 320 cularibus oblongisve, arescendo expallentibus, rufo-marginatis; peritheciis punctiformibus, lenticularibus, pertusis, laxe ochraceo-parenchymaticis; sporulis oblongo-cylindraceis, 7-8 = 3-4, ad medium quandoque subconstrictis (sed continuis), utrinque rotundatis et 1-guttulatis, hyalinis.

Hab. in foliis Tami communis, Conegliano in Ital. bor.

321. Phyllosticta melanoplaca Thüm. Pilzfl. Sibir. n. 808. — Peri- 321 theciis numerosis, densissime gregariis confluentibusque, minimis; maculas lineares, longas, nervisequentes, nigras efficiens; sporulis cylindricis, utrinque truncatulis, continuis, interdum medio subinflexis, rectis, enucleatis, hyalinis, 4-5 \(\times 2\).

Hab. ad folia viva languidave Veratri albi, in pratis sub-

alpinis pr. fluvium Irba in Sibiria.

322. Phyllosticta liliicola Sacc. Fungi Ven. Ser. II. p. 303. Mich. I. 322 p. 152. — Maculis nullis v. obsoletis; peritheciis hinc inde congregatis, amphigenis, punctiformibus, globulosis, pertusis; sporulis ovoideis, 10 \(\times 3\), 2-guttulatis, hyalinis.

Hab. in foliis languidis Lilii candidi, Selva in Ital. boreali. socia Sphærella Maturna Sacc., cujus spermogonium videtur.

323. Phyllosticta Dioscoreæ Cooke Grev. VIII. 136. Septoria Dio-323 scoreæ Cooke Hedw. 1878, p. 38. — Maculis intense ochraceis; peritheciis lenticularibus, pertusis, 100 u. diam.; sporulis ovoideis, 7 = 5-6, granulosis, hyalinis.

Hab. in foliis Dioscoreæ, Aiken in Carolina, et in Gallia austr. 324. Phyllosticta cruenta (Fr.) Kx. Flandr. I. 412. Mich. I. p. 142

et 341, Sphæria cruenta Fr. S. M. II. p. 581. — Maculis subcircularibus oblongisve, amæne sanguineis, dein centro pallentibus; peritheciis gregariis sparsisve, epiphyllis, globoso-lenticularibus, astomis, contextu compacto, crassiusculo, atro-olivaceo; sporulis ovato-oblongis, $14-16 \approx 5,5-6,5$, curvulis, intus granulosis; basidiis cylindraceis, brevibus, $10-12 \approx 4$ suffultis.

Hab. in foliis Polygonati multiflori, officinalis et Smilacinæ, in Italia, Germania, Gallia, Lusitania, Belgio, Sibiria. America boreali.

325. Phyllosticta Uvariæ Berk. in Curr. Simpl. Sphær. n. 387, f. 325 147. — Maculis subcircularibus v. irregularibus, centro brunneis, obscuriusque marginatis; peritheciis perexiguis, nigris; sporulis ellipsoideis v. subglobosis, 5-10 µ. long., hyalinis.

Hab. in foliis Uvariæ trilobæ (cultæ?).

326. Phyllosticta Donckelaeri West. 5 Not. n. 60. — Maculis hypo- 326 phyllis subcircularibus, magnis, albido-cinereis, margine subelevato rufo-fusco; peritheciis semiinnatis, copiosis, nigris, nitidulis, subconcentricis, pertusis; sporulis ovato-cylindraceis, hyalinis, 15 ≈ 3, 2-3-guttulatis.

Gab. in foliis Oncidii, in calidariis Gand urbis Belgicæ (J. Donckelaer).

327. Phyllosticta Orontii Ell. et Mart. Amer. Nat. 1882, p. 1002. — 327 Maculis latis flavicantibus, obsolete marginatis; peritheciis epiphyllis, brunneis, 56μ . diam.; sporulis ovoideis, $6 \approx 2.5$.

Hab. in foliis Orontii aquatici, New Jersey in Amer. bor.
328. Phyllosticta acorella Sacc. et Penz. Mich. II. p. 620. — Ma- 328 culis oblongis deustis; peritheciis amphigenis, gregariis, punctiformibus, fusco-nigris; sporulis cylindraceis, utrinque subincrassatis (ossiformibus), perexiguis, 3,5-4 ≈ 1-1,5.

Hab. in foliis languidis Acori Calami, in Gallia (THERRY).

329. Phyllosticta Acori Oud. Aanw. Myc. Nederl. 1876, pag. 6. — 329

Maculis elongatis nigris; peritheciis minutissimis, non nisi folio dissecto detegendis, atris; sporulis exilissimis, ovalibus, gelatina nidulantibus.

Hab. in foliis Acori Calami, in Hollandia. — Cellulæ perithecii circa ostiolum in fila subtilia flagelliformia, achroma, denique septata mox abeunt.

330. Phyllosticta Cocos Cooke in Grevillea. — Maculis pallidis, ir- 330 regularibus, subellipticis, brunneo-cinctis; peritheciis punctiformibus, atris; sporulis arcte ellipticis, 8 ≈ 3.

Hab. in foliis Cocos nuciferæ, Belgaum in India (Hobson).

331. Phyllosticta Curreyi Sacc. Sphæria (Depazea) Alismatis Curr. 331 Simpl. Sphær. p. 334, f. 154. — Peritheciis subglobosis, castaneis (saltem in sicco); sporulis ellipsoideis, subglobosis v. turbinatis, basi subinde apiculatis (stipitatis?), hyalinis, marginatis, 10-13 μ. long.

Hab. in foliis Alismatis Plantaginis, Suffolk in Britan-

niæ (Sтоск). — A Ph. Alismatis Sacc. et Speg. diversa.

332. Phyllosticta Alismatis Sacc. et Speg. Mich. I. p. 144. — Ma. 332 culis latis, are scendo albicantibus, fuligineo-cinctis; peritheciis gregariis, sublenticularibus, nigricantibus; sporulis oblongo-ellipsoideis, $8 \approx 3^{1}/_{2}$, utrinque rotundatis, hyalinis.

Hab. in foliis Alismatis Plantaginis, in Italia boreali, Sibiria et Lusitania.

333. Phyllosticta aquatica Speg. in Mich. I. pag. 483. — Peritheciis 333 subepidermicis, lenticularibus, 100-110, ostiolo latiusculo, 10 μ. diam., pertuso; contexu laxissime et tenuissime parenchymatico-membranaceo, olivaceo; sporulis ellipticis, utrinque obtusiusculis, quandoque inæquilateralibus, hyalinis, 4-5 = 2.

Hab. ad folia putrida Lemnæ minoris, prope Conegliano in Italia boreali.

334

334. Phyllosticta Draconis Berk. in Welw. F. Port. p. 5.

Hab. in foliis Dracene Draconis, Ajuda in Lusitania et Collioure in Gallia. — Exemplaria in F. Gall. n. 233 nil Phyllostictæ præbent. Cl. Berkeley nullam diagnosim refert quia specimina lusitanica omnino sterilia.

335. Phyllosticta Aloes Kalch. Grevill. IX. pag. 20. — Epiphylla; 335 maculis ellipticis, aurantio-fuscis; peritheciis membranaceis, gregariis, fuscis, immersis; sporulis ellipticis, profusis, hyalinis, 5 μ . longis.

Hab. in Aloe latifolia, in Africa australi.

336. Phyllosticta Renouana Sacc. et Roum. Reliq. Myc. Lib. IV. p. 336 117. — Maculis elongatis, cinnamomeis, centro expallentibus; peritheciis globoso-lenticularibus, innatis punctiformibus; sporulis ovato-ellipsoideis, $4 \approx 2$, hyalinis.

Hab. in foliis Typharum, in Gallia et Germania.

337. Phyllosticta typhina Sacc. et Malb. Mich. II. pag. 88. — Ma-337 culis oblongis, amphigenis, rubiginosis, centro pallidioribus, majusculis; peritheciis centralibus, lenticularibus, pertusis, $100-110~\mu$. diam., contextu tenui, parenchymatico, fulvello; sporulis ovoideis, $4 \approx 1^3/4-2$, 2-guttulatis, hyalinis.

Hab. in foliis nondum emortuis Typhæ latifoliæ, in Gallia centrali (Malbranche).

338. Phyllosticta sorghina Sacc. Mich. I. p. 140. — Maculis sinuo 338 sis, variis, expallentibus, zona sanguinea cinctis; peritheciis punctiformibus, sparsis, pertusis; sporulis ellipsoideis, utrinque rotundatis, 5 \(\pi 2\), 2-guttulatis, hyalinis.

Hab. in foliis Sorghi vulgaris, socia Ascochyta Sorghi Sacc. et Sphærella Cerere Sacc., cujus est probabile spermogonium, Selva in Ital. bor.; et in Sorgho halepensi, pr. Coimbra in Lusitania. — Phyll. Sorghi Anzi in Rabh. F. E. n. 2162 sistit formam leptostromaceam v. phyllachoraceam, cujus sporas proprias non vidi.

339. Phyllosticta hæmatocycla Berk. in Welw. F. Portug. p. 5. — ³³⁹ Maculis latissimis, pallidis, rufo-cinctis; peritheciis parcis submarginalibus; sporulis oblongo-subclavatis; sporophoris clavatis.

Hab: in foliis Phormii tenacis, Lisboa in Lusitania.

340. Phyllosticta Caricis (Fuck.) Sacc. Ascochyta Caricis Fuck. Symb. 340 Myc. p. 386. — Peritheciis hypophyllis in macula fusca, sparsis, hemisphæricis, astomis, atro-nitidis; Sphærellæ punctiformis magnitudine; sporulis numerosis, cylindraceis, rectis, continuis, hyalinis.

Hab. in foliis vivis Caricis muricatæ, prope Vollrads in Germania.

341. Phyllosticta? scirpicola (Lév.) Sacc., Cheilaria scirpicola Lév. 341 Fragm. mycol. in Ann. Sc. nat. 1848, p. 252. — Peritheciis innatis, subglobosis vel ovatis, nigris, rima longitudinali dehiscentibus, disco concolori; sporulis minutis, ovato-elongatis, subfusiformibus, continuis.

Hab. ad culmos Scirpi palustris, Meudon prope Parisios.
 342. Phyllosticta crastophila Sacc. Mich. I. p. 153. — Maculis obsoletis v. sordide ochraceis; peritheciis late sed laxiuscule gregariis, globoso-lenticularibus, innato-prominulis, atris; sporulis oblongis, 5-6 ≥ 2, rectis, utrinque obtusiusculis, 2-guttulatis, hyalinis.

Hab. in foliis Setariæ verticillatæ, Selva in Italia bor.
343. Phyllosticta Marchantiæ Sacc. Mich. I. p. 144. — Maculis vagis, 343 epiphyllis, arescendo dealbatis, fusco-cinctis; peritheciis punctiformibus, atris, lenticularibus, 70-80 μ. diam., pertusis; sporulis oblongo-cylindraceis, 5 ≈ 1, curvulis rectisve, 2-guttulatis, hyalinis.

Hab. in fronde Marchantiæ, Sernaglia (Treviso) in Italia horeali.

344. Phyllosticta Peltigeræ Karst. Hedw. 1884, p. 62. — Peritheciis 344 maculæ dealbatæ insidentibus, laxe gregariis, emergentibus, rotundatis, astomis, subnitentibus, atris, 0,2 mill. lat.; sporulis oblongatis, rectis, eguttulatis, 3-6 = 2.

Hab. in thallo semiemortuo Peltigeræ caninæ, ad Mu-

stiala in Fennia.

345. Phyllosticta innumera Cooke et Harkn. Grevill. IX. p. 81. — 345 Hypophylla; peritheciis exiguis, aliis in maculas orbiculares dispositis, aliis in plagas maximas gregariis; sporulis ellipticis, hyalinis, continuis, $4.5 \approx 2$.

Hab. in foliis viventibus (cujus plantæ?), in America boreali.

APPENDIX

Depazea Fr.: Species sporulis ignotis ergo dubiæ #).

346. Depazea Impatientis Kirchn. in Lotos 1856, p. 184.

Hab. in foliis vivis Impatientis Nolitangere, in Germania, Austria et Sibiria.

347. Depazea Hydrocotyles Rabh. in Kl. Herb. Myc. 1143.
Hab. in foliis Hydrocotyles vulgaris in Germania.

346

347

348. Depazea calthæcola DC. Fl. franc. — Maculis albis vix circum- 3 scriptis; peritheciis minutis, sparsis, planis, nigris.

Hab. in foliis Calthæ, in Gallia. — Maculæ 1 lin., frequentes, rotundatæ, ovales v. confluentes, sæpe steriles; perithecia epiphylla videntur.

349. Depazea Lychnidis Fr. in Myc. Heft II. p. 53 et S. M. II. 531. 349 — Maculis indeterminatis, albicantibus; peritheciis hemisphæricis, prominulis; disco demum nudo, opaco, rugoso, atro.

Hab. in foliis Lychnidis viscariæ, in Germania.

350. Depazea gentianæcola (DC.) Fr. S. M. II. pag. 531, Sphæria 350 gentianæcola DC. Fl. franc. — Maculis rufescentibus, subzonatis, vix circumscriptis; peritheciis centrali-confertis, convexis, nigris.

Hab. in foliis Gentianæ luteæ et cruciatæ, in Germania, Gallia et Helvetia. — Maculæ orbiculares, unciales, punctis numerosis, perexiguis.

^{*)} Plures aliæ species sub nomine Depaseæ et Ascochytæ in Klotzschii, Rabenhorstii, Kirchneri exsiccatis librisque reperiuntur vel sine diagnosi vel cum diagnosi imperfecta. Quum vero hæ formæ ad Phyllostictæ vel Septoriæ vel Ascochytæ species jam rite cognitas verisimiliter spectent, hic penitus omittuntur.

Sphærioidee, Hyalosporæ, Phyllosticta. 63	
351. Depazea Aquilegiæ Rabh. in Klotzsch, Herb. mycol. n. 1651.	35 I
Hab. in foliis Aquilegiæ, in Germania et Sibiria.	
352. Depazea Erdingeri Thum. F. austr. n. 697. — Peritheciis mi-	
nimis, numerosis, globosis, atris in maculis expallescentibus, ari-	
dis, griseis.	
Hab. in foliis Sisymbrii Læselii, in loco unico, prope	
Krems in Austria.	
353. Depazea Linnææ Ehrenb. — Maculis candidis, ambitu lato ro-	353
seo; peritheciis gregariis, epiphyllis, minimis, hemisphæricis, sub-	
concavis, atro-nitidis.	
Hab. in foliis Linnææ borealis, in Germania.	
354. Depazea Lythri Kirchn. in Lot. 1856, p. 202.	354
Hab. in foliis Lythri Salicariæ, in Germania et Austria.	
355. Depazea Acetosæ Op. Seznam rostlin p. 120.	355
Hab. ad folia viva Rumicis Acetosæ, in Austria et Sibiria.	
356. Depazea (Phyllosticta) Veronicæ Lacaille in Rev. Myc. II. p. 62.	356
(tantum nomen).	
Hab. in foliis Veronicæ speciosæ, prope Bolbec, Havre in	
Gallia.	
357. Depazea (Phyllosticta) Cymbalariæ Lacaille in Rev. Myc. II.	357
p. 62.	
Hab. in foliis Linariæ Cymbalariæ, prope Bolbec, Havre	
in Gallia.	
358. Depazea Lycoctoni Kirchn. Lotos 1856, p. 184.	358
Hab. in foliis Aconiti Lycoctoni, in Bohemia merid.	
359. Depazea adoxicola Lasch, in Kl. Herb. myc. 1648.	359
Hab. in foliis Adoxæ Moschatellinæ, in Germania.	
360. Depazea Agrimoniæ Lasch, in Kl. Herb. myc. n. 1356.	360
Hab. in foliis Agrimoniæ, in Germania.	
361. Depazea Asperulæ Lasch, in Kl. Herb. myc. n. 1867.	361
Hab. in foliis Asperulæ, in Germania.	
362. Depazea Trientalis Lasch, in Kl. Herb. myc. n. 364, Rabenh.	362
Deut. Cr. F. n. 1250. — Maculis albis, brunneo-cinctis; peritheciis	002
globosis, prominulis, atris.	
Hab. in foliis Trientalis europææ, in Germania.	
363. Depazea Meliloti Lasch, in Kl. Herb. myc. n. 370. — Maculis	363
ochraceo-fuscis, obsolete marginatis; peritheciis grandiusculis,	
brunneo-atris, subumbilicatis, subconcentricis.	
Hab. in foliis Meliloti vulgaris, in Germania.	
364. Depazea polygonicola Lasch, in Kl. Herb. viv. mycol. n. 566.	364
out. Depared pulygonicula Lason, in It. Herb. viv. mycol. ii. 500.	1

Hab. in foliis Polygoni et Fagopyri, in Germania et Austria.

365. Depazea balloticola Fr. S. M. II. p. 532. — Maculis albido-ru- 365 fescentibus, ambitu fusco cinctis; peritheciis minimis, sparsis, convexis, nigris.

Hab. in foliis Ballotæ nigræ, in Suecia, Germania et Italia.
 366. Depazea Pirolæ Ehrenb. Ber. p. 29. — Maculis purpureis, de- 366 mum nigricante-cinctis; peritheciis gregariis, hemisphæricis, de-mum collapsis ruptis.

Hab. in foliis Pirolæ umbellatæ et secundæ, in Germania. — Perithecia tecta, atra, nitida, interdum confluxa.

367. Depazea (Phyllosticta) glauca Cooke in Rav. Fung. Amer. n. 93 367 (sub Septoria). — Maculis circulari-sinuosis, epiphyllis, albidis, atro cinctis; peritheciis gregariis, punctiformibus, atris; sporulis..... (a me non inventis et a Cooke non descriptis).

Hab. in foliis Magnoliæ glaucæ, Gainesville in Amer. bor. 368. Depazea (Phyllosticta) Coluteæ Fiedl. in Rabenh. F. E. n. 877, 368 Hedw. 1875, p. 159 (nulla descriptio).

Hab. in foliis Coluteæ, in Germania.

369. Depazea celastrina Lév. An. Scienc. Nat. 45, p. 55. — Maculis ³⁶⁹ albo-sordidis, ambitu nigris; peritheciis sparsis vel gregariis globosis, nudis, demum depressis, epidermide fissa tectis.

Hab. ad folia Celastri, in Nova Calædonia (Labillardière).

370. Depazea tremulæcola DC. Fl. franc. VI. p. 147. — Maculis 370 orbiculatis, fuscis; peritheciis epiphyllis, sphæricis, nitidis, in centro griseo, confluente-stipatis.

Hab. in foliis Populi tremulæ, in Suecia, Gallia, Germania et Italia. — Maculæ minutæ, 1-2 lin. latæ, in ambitu absque peritheciis, quæ confertissima, nitida, vix circumscissa.

371. Depazea carpinea (Schwein.) Fr. S. Myc. II. p. 530, Xyloma 371 carpineum Schw. Carol. n. 287. — Macula pallida; peritheciis punctiformibus, subconcentricis sparsisque, elevatis, nigro-fuscis.

Hab. in foliis Carpini, in Carolina (Schweinitz).

372. Depazea Arecæ Spreng. V. A. H. p. 52. — Maculis indetermi- 372 natis, obsoletis, pallescentibus; peritheciis epiphyllis, hemisphæricis, prominulis, nitidis, stellulato-stipatis.

Hab. in foliis Arecæ oleraceæ. — Perithecia in cæspitulos, lineam latos, aggregata, sed non confluentia, folium leviter dealbantia, glabra, nigra, intus fusca, demum disco collapso nudo subpulverulento.

373. Depazea (Phyllosticta) Sagittariæ Rabh. Fungi europ. n. 553 373 (absque diagnosi).

Hab. in foliis Sagittariæ sagittifoliæ, Knielingen et Hattenheim in Germania, et Minussinsk in Sibiria.

374. Depazea smilacicola Rabh. in Klotz. Herb. myc. n. 1148.

Hab. in foliis Smilacis, Ancona in Italia. — An eadem ac Septoria smilacina?

375. Depazea (Phyllosticta) Palmarum R. Rabh. Hedw. 1876, p. 120, 375
F. Eur. n. 2161. — Maculis sinuosis, amphigenis, expallentibus, atro-marginatis; peritheciis..... nullis visis.

Hab. in foliis nondum emortuis Palmarum, in insula Carmen (Campeche Bay). — Legit Rub. Rabenhorst filius.

376. Depazea Cypripedii Kirchn. in Lotos 1856, p. 202.

**Hab.* in foliis Cypripedii, in Bohemia meridionali.

376. Depazea Cypripedii, in Bohemia meridionali.

377. Depazea (Phyllosticta) Sorghi Anzi in Hedw. 1876, p. 120, F. 377 Eur. n. 2162. — Maculis amphigenis, sinuosis, oblongis, centro nigricantibus, zona albida, sanguineo-marginata cinctis; peritheciis.... nullis visis.

Hab. in foliis Sorghi saccharati et vulgaris, in Italia boreali.

378. Depazea crispans Fr. Elench. Fung. II. p. 111. — Maculis latis, 378 indeterminatis, griseis, in ambitu fulvis; peritheciis semiimmersis, prominulis, confertis, globosis.

Hab. in foliis Convallariæ bifoliæ, in Gallia (Моисвот).

— Peritheciis globosis!, subtectis, semiemersis, persistentibus, et habitu bene differt hæc species. Maculæ late effusæ, submarginales, folia contorta reddunt.

379. Depazea paridicola Rabenh. in Kl. Herb. myc. n. 868.

Hab.* in foliis Paridis, in Germania.

PHOMA Fr. em. Desm. XIII. Not. p. 6, Sacc. Mich. II. p. 4. (Etym. phos, pustula). Clisosporium Bon., Sphæropsis Lév. et Auct. p. p., Gerulajacta Preuss p. p., Coniothyrium Auct. p. p., Sporonema Desm. p. p. — Perithecia subcutanea, dein erumpentia, membranacea, subcoriacea v. subcarbonacea, globosa v. compressa, glabra, erostria. ostiolo minuto, subinde obsoleto. Sporulæ ovoideæ, fusoideæ, cylindraceæ, rarius sphæroideæ, continuæ, hyalinæ, ut plurimum 2-guttatæ. Basidia filiformia, subinde brevissima v. obsoleta, simplicia, raro furcata. — Genus vastissimum, tædiosum, in plura facile dividendum; quod ipse fecissem, si species omnes ple-

5

nius cognitæ essent. Adsunt enim species, aptius separandæ, perithecio subastomo depresso, basidiis demum uncinatis instructæ (*Phomopsis*) spermogonia *Diaporthes* sistentes; aliæ perithecio subrimoso compresso ornatæ (*Hysterophoma*). Species vero epixylas a *Phoma* separavi (*Aposphæria*) nec non illas basidiis verticillatoramosis instructas (*Dendrophoma*). *Sphæropsidis* Lév. et Auct. species hyalosporæ a *Phoma* distingui nequeunt, nisi quia iis sporulæ et perithecia plerumque paulo crassiora sint, quibus vero notis subgenus aliud (*Macrophoma*) institui potest.

I. In Dicotyledoneis lignosis.

A) Ramicolæ.

1. Phoma occidentalis Sacc. Mich. II. p. 95. — Peritheciis gregariis, 380 epidermide velatis, globoso-depressis, nucleo olivascente; sporulis fusoideis, 10 = 2, minute 2-guttulatis, hyalinis; basidiis non visis.

Hab. in ramulis Gleditschiæ Triacanthi, Rouen in Gallia (Letendre). — Sperm. Diaporthes.

Phoma Gleditschiæ (Thum.) Sacc. Coniothyrium Gleditschiæ Thum. 381
 Symb. Myc. Austr. I. n. 6. — Peritheciis sparsis, immersis, subglobosis, fere tuberculi-formibus, rimosis, atro-fuscis, magnis; sporulis globosis vel ellipsoideis, simplicibus, numerosis, 3-4 ≈ 2,5-3,
achrois.

Hab. ad ramos, spinasque emortuas Gleditschiæ Triacanthi, Klosterneuburg in Austria.

3. Phoma mamillaris B. et C. Sphæropsis mamillaris B. et C. North 382 Am. Fung. n. 412. — Peritheciis sparsis vel congestis, mamillæformibus, cuticula cinctis; sporulis oblongo-obovatis, hyalinis, 15 = 5.

Hab. in ramis Gleditschiæ, in Carolina inf., regione Americæ borealis.

4. Phoma Vincentiana Speg. F. Arg. Pug. I. pag. 189. — Perithe-383 ciis sparsis, primo subepidermicis, tectis, dein ob corticem secedentem liberis, globoso-conoideis, ¹/₃-¹/₄ mill., rugulosis, membranaceo-carbonaceis, atris, ligno immutato vel infuscato adnatis; sporulis elongato-ellipticis, utrinque acutiuscule rotundatis, 8-10 ≈ 3-4, et uniguttulatis, continuis, hyalinis; basidiis cylindraceis, hyalinis, 15 ≈ 1-2, suffultis.

Hab. in ramulis Parkinsoniæ aculeatæ, S. Vincent, insula Africæ, et prope Buenos-Aires in Argentina, regione Americæ meridionalis.

5. Phoma Cassiæ Sacc. Mich. II. pag. 145. — Peritheciis gregariis, 384

epidermide albicante velatis, globoso-depressis, 110 μ . diam., pertusis; sporulis breve fusoideis, $6-8 \approx 1^{8}/_{4}-2$, 2-guttulatis, hyalinis; basidiis teretiusculis, æquilongis, suffultis.

Hab. in ramis Cassiæ occidentalis, in Carolina, regione Americæ borealis (RAVENEL). — Spermogonium Diaporthes.

6. Phoma Coluteæ Sacc. et Roum. Mich. II. p. 338. — Peritheciis 385 gregariis, lenticularibus, ¹/₃ mill. diam., initio epidermide cinerescente velatis, griseis; sporulis oblongis, 7 ≈ 3, 2-guttulatis, hyalinis; basidiis subæquilongis suffultis.

Hab. in ramis Coluteæ arborescentis, prope Toulouse in Gallia. — Spermogonium Diaporthes.

7. Phoma Coronillæ West. Exs. n. 966. — Peritheciis sparsis, gre- 386 gariisque exiguis, subglobosis, innato-erumpentibus; nucleo albido; sporulis ovato-oblongis, 7-8 = 3, biguttulatis, hyalinis; basidiis filiformibus, arcuatis, 20 = 1,5.

Hab. in ramulis emortuis Coronillæ Emeri, in Belgio et Italia. — Spermogonium Diaporthes Coronillæ Sacc.

8. Phoma inæqualis Speg. F. Arg. Pug. II. pag. 128. — Peritheciis 387 densiuscule sparsis, ligno insculptis, cortice et linea stromatica tectis circumscriptisque, minutis; sporulis elliptico-elongatis, inæquilateralibus, biguttulatis, utrinque acutato-rotundatis, 7-10 \times 2-3, hyalinis.

Hab. in ramulis dejectis emortuis Ulicis europæi, in hortis San José de Flores in Argentina. — Status spermogonicus Diaporthes incequalis Nits.

9. Phoma Spartii Sacc. Mich. I. p. 359. — Peritheciis gregariis, cor-388 tice velatis, dein, ipso secesso, superficialibus, basi ligno insculptis, oblongis, quandoque subhysteriiformibus, $\frac{1}{3}$ - $\frac{1}{5}$ mill., nigris; ostiolo sæpe rimose dehiscente; sporulis fusoideis, $10-11 \approx 2-2^{1}/_{2}$, 2-guttulatis, hyalinis; basidiis filiformibus, curvis, $20-22 \approx 1\frac{1}{2}-2$, suffultis.

Hab. in trunco Spartii, prope Alençon in Gallia (C. C. Gil-LET). — Verisimiliter status spermogonicus Diaporthes cujusdam.

10. **Phoma Sophoræ** Sacc. F. Ven. Ser. V. p. 202. — Peritheciis sub 389 epidermide denique minute fissa nidulantibus, lenticularibus, atris plagulasque sinuosas quandoque in cortice superiore nigrolimitatas efformantibus, $\frac{1}{4}$ mill. diam.; sporulis oblongo-ovoideis, 8-10 $\approx 3\frac{1}{2}-4$, 2-guttulatis, hyalinis; basidiis filiformibus, hamatis, 25 $\approx \frac{1}{4}$, fultis.

Hab. in ramis Sophoræ japonicæ, in Italia boreali, Austria et Gallia merid. — Spermogonium Diaporthes.

11. Phoma Siliquastri Sacc. Mich. II. p. 341. — Peritheciis dense 390 gregariis, globoso-depressis, subcutaneis vix erumpentibus, griseis; sporulis oblongo-subfusoideis. 6-7 = 2-21/2, hyalinis.

Hab. in ramulis corticatis Cercidis Siliquastri, Saintes in

Gallia (Brunaud). — Spermogonium Diaporthes.

12. Phoma Sarothamni Sacc. Cfr. Syll. II. p. 663. — Peritheciis 391 globoso-depressis, subcutaneo-erumpentibus; sporulis oblongo-fusoideis, $8-12 \approx 2$. biguttulatis, hyalinis; basidiis filiformi-hamatis, $30 \approx 1$.

Hab. in ramis Sarothamni Scoparii, in Germania. —

Spermogonium Diaporthes Sarothamni.

13. Phoma seposita Sacc. I. Ven. Ser. IV., sub n. 16 et Ser. V., n. 392 295. — Peritheciis globoso-depressis, in cortice exteriore nidulantibus, pulpa obscura fœtis; sporulis oblongo-fusoideis, $7-10 \approx 3$, hyalinis, 2-guttatis; basidiis filiformibus curvulis vel hamatis, $20-24 \approx 1-2$.

Hab. in ramis Wistariæ sinensis, in Italia boreali et Gal-

lia. - Spermogonium Diaporthes.

14. Phoma Amorphæ Sacc. Mich. I. p. 523. — Peritheciis gregariis, 393 globoso-lenticularibus, subcutaneis, pertusis, $^{1}/_{10}$ - $^{1}/_{7}$ mill. diam.; sporulis ovatis, $6-7\approx4$, utrinque obtusiusculis, hyalinis (basidiis non visis).

Hab. in ramulis Amorphæ fruticosæ, in Gallia (Letendre).

15. Phoma Laburni (West.) Sacc. Sphæropsis Laburni West. 5. Not. 394 n. 32. — Peritheciis sphæricis, subinnatis, 1 mill. circ. diam., epidermidem dein nigrificatam sublevantibus atque cum ea laciniatim secedentibus; nucleo albido; sporulis ovoideis, hyalinis, ±0-30 ≈ 13-14.

Hab. in ramis corticatis Cytisi Laburni, in Belgio et Italia. — Cum Cucurbitaria Laburni forte metagenetice connexa.

16. Phoma rudis Sacc. Mich. I. p. 257. Cfr. Fuck. Symb. 209 et Sacc. 395 Syll. I. p. 662. — Peritheciis gregariis, epidermide primitus velatis, globoso-depressis; sporulis oblongo-cylindraceis, 6-7 ≈ 2, 2-guttulatis, hyalinis; basidiis filiformibus fultis.

Hab. in ramulis emortuis Cytisi Laburni, in Italia boreali,

Gallia, Germania. - Spermogonium Diaporthes rudis.

17. Phoma mendax Sacc. Mich. I. p. 521. — Peritheciis gregariis. 396 subcutaneis, globoso-depressis, nigricantibus; sporulis elongatis, 10 = 2, 2-guttatis, hyalinis; basidiis filiformibus, demum hamatis, 25 = 1.

Hab. in ramis Albizziæ Julibrissiri, in Gallia et Italia.

18. Phoma clavuligera (B. et C.) Sacc. Sphæropsis clavuligera B. 397 et C. F. of Cuba n. 562. — Peritheciis subcuticularibus depressis; sporulis oblongo-clavatis, hyalinis, 14-15 μ. longis; basidiis seu sporophoris brevibus.

Hab. in caulibus Diptericis odoratæ (Congo-bean) in Cuba.

Phoma abnormis (B. et C.) Sacc. Cytispora abnormis B. et C. ³⁹⁸
 North. Am. Fungi n. 459. — Pustulis minutis, apice tantum erumpentibus; sporulis oblongis, binucleatis, 7-8 μ. longis.

Hab. in ramis Robiniæ, in Carolina inf.

20. Phoma oncostoma Thum. M. U. n. 877. — Peritheciis gregariis, 399 subcutaneis, globoso-depressis, atro-olivaceis, subinæqualibus; sporulis fusoideis, utrinque acutis, 10 ≈ 2, biguttatis, hyalinis; basidiis longis, demum hamatis.

Hab. in ramulis corticatis Robiniæ Pseudacaciæ, in Italia, Gallia, Germania. — Spermogonium Diaporthes oncostomæ.

21. Phoma Robiniæ (Pr.) Sacc. Sphærocista Robiniæ Preuss Hoyersw. 400 n. 35. — Peritheciis corneis, in stromate expanso arcte et singulatim insidentibus; ostiolo perforato; basidiis filiformibus; sporulis fusiformibus, curvatis, utrinque acutis; guttulis quaternis repletis, albis.

Hab. in Robinia, Hoyerswerda. — An diversa a Ph. on-costoma?

22. Phoma Pseudacaciæ Sacc. — Peritheciis gregariis, majusculis, 401 conico-truncatis v. subhemisphæricis, subcutaneis, poro apertis; sporulis ovato-fusoideis, $8-10 \approx 2,5-3$; basidiis filiformi-hamatis, $20-22 \approx 1$.

Hab. in ramis corticatis Robiniæ Pseudacaciæ, in Italia, Germania, Gallia, socia Diaporthe fasciculata, cujus est spermogonium.

23. Phoma Fuckelii Sacc. Mich. II. pag. 52. — Peritheciis minutis, $_{402}$ globulosis, atris; sporulis minutissimis, botuliformibus, $_{3-4} \approx \frac{3}{4}$, hyalinis; basidiis bacillaribus, $_{8} \approx 1$, e strato proligero luteolo oriundis.

Hab. in ramis Robiniæ Pseudacaciæ, in Vogesis Galliæ, intermixta Cælosphæria Fuckelii, cujus spermogonium videtur.

24. Phoma cryptica (Nits.) Sacc. Mich. I. p. 521. — Peritheciis gre- 403 gariis, subcutaneis, globoso-depressis, griseo-atris, obtusis; sporulis oblongo-fusoideis, 8 = 3, 2-guttulatis, hyalinis; basidiis filiformi-curvatis.

Hab. in ramis Loniceræ tartaricæ, Caprifolii, Xylostei, in Germania, Italia et Gallia. — Spermogonium Diaporthes.

25. Phoma Ryckholtii Sacc. Cfr. Syll. I. p. 680. — Peritheciis sub- 404 cutaneis, gregariis, globoso-depressis; sporulis obtuse fusoideis, 6-8 = 2,5, biguttatis, hyalinis, longiuscule stipitatis.

Hab. in ramis Symphoricarpi racemosæ, in Italia, Germania, Belgio. — Spermogonium Diaporthes Ryckholtii.

26. Phoma Xylostei Cooke et Harkn. in Grev. 1881, p. 82. — Sparsa, punctiformis; peritheciis atris, subprominulis; sporulis ellipticis, continuis, hyalinis, $6 \approx 3$.

Hab. in ramis Loniceræ hispidulæ, in California, regione Americæ borealis.

27. Phoma minutula Sacc. Mich. II. p. 92. — Peritheciis corticolis, 406 tectis sparsis, globoso-papillatis, $\frac{1}{8}$ mill. diam., contextu minute parenchymatico, ochraceo-fuligineo; sporulis botuliformibus, perexiguis, $4 \approx 1$, basidiis bacillaribus, 5-6 μ . long., suffultis.

 $\it Hab.$ in ramulis corticatis Loniceræ Xylostei, pr. Rouen in Gallia (Мадекансне), et in sarmentis vivis Loniceræ cujusdam cultæ in Argentina (Spegazzini). — In hac postrema perithecia 100-110 μ . diam.; sporulæ inæqualiter ovoideæ, non vel 1-guttatæ, $5 \approx 1,5$.

28. Phoma Loniceræ Cooke in Grevillea. — Sparsa, erumpens; pe-407 ritheciis prominulis, atris, penitus tectis; sporulis ellipticis, binucleatis, hyalinis, $10-12 \approx 3-4$.

Hab. in ramis Loniceræ, New Jersey in Amer. bor. (Ellis).

29. Phoma Mariæ Clin. in Peck. Rep. on the St. Mus. N. Y. — 408 Peritheciis minutis, punctiformibus v. subhysterinis, epidermide tectis, nigris; sporulis oblongo-ellipsoideis, subinde acutis, hyalinis, biguttatis, 8 μ. longis.

Hab. in ramis decorticatis Loniceræ flavæ et tartaricæ, Buffalo in America boreali.

30. Phoma Weigeliæ Speg. Mich. I. p. 481. — Peritheciis lenticula- 409 ribus, $110\text{--}120~\mu$. diam., sub epidermide nidulantibus, carbonaceis, ostiolo papillato-conoideo acutiusculo donatis; sporulis minutis, hyalino-chlorinis, 3-5 \approx 1-2, ellipticis vel ovoideis, obtusis, non guttulatis.

Hab. in ramulis emortuis Weigeliæ roseæ, Conegliano in Italia boreali.

31. Phoma peduncularis Sacc. Gerulajacia striceformis Preuss. F. 410 Hoyersw. n. 316. — Peritheciis membranaceis, hemisphæricis, atris;

nucleo albo; basidiis clavatis, albis, curvatis; sporulis oblongis, albis.

Hab. in pedunculis Sambuci, Hoyerswerda.

32. Phoma sambucella Sacc. Cfr. Syll. I. p. 633 ad n. 98. — Peri-411 theciis subcutaneo-erumpentibus, globoso-depressis, gregariis; sporulis ovato-oblongis, $8 \approx 3-4$, biguttatis, hyalinis.

Hab. in ramis emortuis Sambuci racemosæ et nigræ, in Germania, Italia, Gallia. — Spermogonium Diaporthes spiculosæ.

33. Phoma sambucina Sacc. Mich. II. p. 97. — Peritheciis gregariis, ⁴¹² epidermide initio velatis, globoso-depressis v. oblongis, griseo-fuscis; sporulis oblongo-fusoideis, 8-10 ≈ 3, 2-guttatis, hyalinis; basidiis bacillaribus, 15 ≈ 1, suffultis.

Hab. in ramulis tenellis Sambuci nigræ, Rouen in Gallia (Letendre). — Spermogonium Diaporthes.

34. Phoma vicina Desm. Exs. Ser. III. n. 352 (verisimiliter, sed exempl. 413 non vidi). Mich. I. p. 525. — Peritheciis punctiformibus, globoso-ellipsoideis, 100-150 ≈ 50-60, minute pertusis, basi ligno infossis; sporulis oblongis, curvulis, 5 ≈ 2, eguttulatis, hyalinis.

Hab. in ramis decorticatis Sambuci nigræ, in Gallia. — F. Platani Sacc. in Rev. Myc. III. 6, p. 28. Sporulis ovato-oblongis, 4 ≈ 1-7; basidiis brevissimis suffultis, nubilosis, hyalinis. In ramulis Platani, in Algeria (Trabut). — An Aposphæria?

35. Phoma Landeghemiæ (Nits.) Sacc. — Peritheciis exiguis, cortici 414 interiori subinfossis, globoso-conicis, pertusis; sporulis fusoideis, subrectis, 8 = 2,5, hvalinis; basidiis cæspitosis, breviusculis.

Hab. in ramis corticatis Philadelphi coronarii, in Germania. — Spermogonium Diaporthes Landeghemia. Cfr. Syll. I. pag. 683.

36. Phoma rhamnicola Cooke et Hark. in Grevillea n. 64. — Gregaria, minuta, punctiformis; peritheciis tectis, subglobosis, atris ostiolis erumpentibus; sporulis oblongis, continuis, hyalinis, 7,5 ≈ 3.

Hab. in ramis Rhamni californicæ, in California.

37. Phoma Evonymi Sacc. Gibberellæ Evonymi Sperm. Fuck. Symb. 416 p. 167. — Peritheciis minutissimis in acervulos subglobosos, 2 mill. diam., dense congestis, ovoideis, nitidis, atro-fuscis; sporulis minimis, cylindraceis, oscillantibus.

Hab. in ramis corticatis Evonymi europæi, in Rhenogovia.
An potius Dothiorellæ species?

38. Phoma ramealis Desm. 18 Not. p. 7. — Peritheciis innatis, mi- 417 nutis, numerosis, dense approximatis, globoso-depressis, 1/4-1/5 mill.

diam., nigris, opacis, epidermide tectis; ostiolis papillatis; nucleo gelatinoso, albido; sporulis oblongis, utrinque obtusis, $10 \approx 2.5-3$, 2-guttulatis.

Hab. in ramis exsiccatis Evonymi europæi et latifolii in Gallia, Italia boreali, Austria. — F. Rhamni Alaterni, in Gallia meridionali.

39. Phoma lirelloides Sacc. et Penz. Mich. II. p. 616. — Peritheciis 418 subparallelis, oblongis, subhysterioideis, minutis, cortice secedente liberatis, basi ligno infossis; sporulis teretiusculis, curvulis, utrinque rotundatis, 5 ≈ 2, hyalinis; basidiis sporula brevioribus, clavulatis, hyalinis.

Hab. in ramis dein decorticatis Evonymi japonici, prope Rouen in Gallia (LETENDRE).

40. Phoma foveolaris (Fr.) Sacc. Mich. II. p. 94. Sphæria foveola- 419 ris Fr. S. M. II. p. 499. — Gregaria; peritheciis innatis, minimis, depressis, albido-farctis, collabascendo concavis, foveolatis; sporulis ovatis obovatisve, 2-guttulatis, 6 ≈ 3, hyalinis.

Hab. ad ramos recenter emortuos Evonymi europæi, in Germania, Gallia, Italia. — Adeo conferta, ut ramulos subinde crustulæ tenuissimæ instar nigræ obducit, in quorum superficie efficit foveolas valde excavatas, nigras, nitidulas, unde facile dignoscitur.

41. Phoma berberina Sacc. et Roum. Mich. II. p. 336. — Peritheciis 420 sparsis vel laxe gregariis, subcutaneis, globoso-depressis, nigro-griseis; sporulis fusoideis, 6-7 ≈ 2-21/2, biguttulatis, hyalinis.

Hab. in ramulis Berberidis vulgaris, Tarbes in Gallia.

- Spermogonium Diaporthes.

42. Phoma detrusa Sacc. Mich. II. p. 96. — Peritheciis cortice ve- 421 latis, sparsis stromateque nigricante conjunctis, globulosis, contextu melleo; sporulis fusoideis, $8-10 \approx 2^{1}/_{2}$, 2-guttulatis, hyalinis; basidiis bacillaribus, $20 \approx 1$, suffultis.

Hab. in ramis Berberidis vulgaris, socia Cucurbitaria, Rouen in Gallia (Letendre). — Spermogonium Diaporthes.

43. Phoma Berberidis Sacc. Mich. I. p. 259. — Peritheciis subsuperfi- 422 cialibus, aggregatis, globoso-conoideis, vertice breve setulosis, verruculosis, nigris; sporulis oblongis, tenuissimis, $3-4 \approx \frac{1}{2}-\frac{3}{4}$, hyalinis, in basidiis ramulosis acrogenis.

Hab. in ramis emortuis Berberidis vulgaris, Selva, Padova in Ital. bor., socia Cucurbitaria Berberidis, cujus sistit spermogonium. Cfr. Sacc. Myc. Ven. Spec. t. XII. f. 29. — An potius Pyrenochætæ species?

44. Phoma melaleuca B. et C. North Am. F. n. 387. — Subcuticu- 423 laris nitida e macula albida oriunda; sporulis oblongis, 7,5-10 μ. longis.

Hab. in (?) ramis Berberidis, Magnoliæ, Araliæ, in America boreali.

45. Phoma Pini C. et Harkn. in Grevillea 1881, pag. 81. — Sparsa, 424 tecta; peritheciis minimis, subglobosis, tectis; sporulis ellipticis, hyalinis, continuis, $6.5 \approx 3$.

Hab. in cortice Coniferarum, in California.

46. Phoma Pittospori Cooke et Harkn. in Grevillea, n. 64. — Gre. 425 garia sparsave, parvula; peritheciis atris subglobosis tectis, demum sursum erumpentibus; sporulis ellipticis, continuis, hyalinis, 8 ≈ 2,5.

Hab. in ramis Pittospori in California, socia Diplodia Pittospori.

47. Phoma pithya Sacc. Mich. l. p. 126. — Peritheciis sparsis, sub- 426 cutaneis, dein semierumpentibus, globulosis, vix papillatis, $\frac{1}{3}$ mill. diam., contextu celluloso, solidiusculo, fuligineo; sporulis fusoideis plerumque rectis, $9-11 \approx 2\frac{1}{2}-3\frac{1}{4}$, initio 2-guttulatis, hyalinis.

Hab. in ramulis corticatis Pini silvestris, in horto botanico Berolinensi (P. Magnus). — Verisimiliter status spermogo-

nicus Diaporthes (Tetrast.) pithyæ Sacc.

48. Phoma Libertiana Speg. et Roum. Mich. II. p. 338. — Perithe- 427 ciis gregariis, erumpentibus, globoso-depressis, papillulatis, contextu parenchymatico rufescente; sporulis ovoideis, utrinque obtusiusculis, $6-6^{1}/_{2} \approx 3$, 2-guttulatis, hyalinis.

Hab. in ramulis corticatis Abietis, in Gallia et Germania. -

Spermogonium, ut videtur, Cenangii Pinastri.

49. Phoma micromegala (B. et C.) Sacc. Sphæropsis micromegala 428 B. et C. North Am. F. n. 410 (bis). — Peritheciis hysteriiformibus, minutis, nitidis, plagulas lineares dealbatas generantibus; sporulis ellipticis, hyalinis, curvulis, 25 ≈ 11.

Hab. in radicibus denudatis Pinorum, Alabama in America

boreali (BEAUMONT).

50. Phoma macrosperma (Karst.) Sacc. Spheronæma macrosper-429 mum Karst. Hedw. 1884, pag. 17. — Peritheciis sparsis, cortici innatis, rotundis, atris, glabris, pertusis, $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam., globulo difformi dilutissime flavescente; sporulis ovoideo-ellipsoideis v. ellipsoideis, simplicibus, hyalinis, 44- $52 \approx 22$ -23.

Hab. in ramulis emortuis Abietis excelsæ, Mustiala in Fen-

nia. - Ob sporulas magnas a genere desciscit.

51. Phoma excelsa Karst. Hedw. 1884, p. 19. — Peritheciis spar- 430 sis vel subgregariis, sed per peridermium erumpentibus, rotundatis, subastomis, atris, primitus sæpe fusco-furfuraceis, 0,3-0,5 mill. diam.; sporulis ovoideis vel ellipsoideo-oblongatis, uniguttulatis, hyalinis, 15-24 = 9.

Hab. in ramis emortuis Piceæ excelsæ, ad Mustiala in Fennia.

52. Phoma piceana Karst. Hedw. 1884, pag. 18. — Peritheciis spar-431 sis, sed epidermidem semierumpentibus, vulgo rotundatis, subastomis vel vix papillatis, subtilissime punctulatis, atris, 500-800 μ . diam.; sporulis elongatis, curvulis, eguttulatis, hyalinis, $5 \approx 1$.

Hab. ad ramulos emortuos Piceæ excelsæ, ad Mustiala in

Fennia.

53. Phoma allostoma (Lév.) Sacc. Sphæropsis allostoma Lév. Ann. 432 Sc. Nat. 1846, p. 294. — Peritheciis sparsis, innatis, demum erumpentibus, subglobosis, rudibus, rigidis, intus sordide albis; ostiolis papillatis vel conicis; sporulis cylindricis, elliptico-linearibus, pellucidis, minutis.

Hab. ad corticem Taxi baccatæ, in horto botanico Parisiensi.

54. Phoma padina Sacc. Syll. I. p. 619. — Peritheciis subtectis, glo-433 boso-lenticularibus, sparsis; sporulis fusoideis, 9-11 ≈ 3, hyalinis.

Hab. in ramis corticatis Pruni Padi, in Gallia et Germania. — Spermogonium Diaporthes decorticantis (Lib.) Sacc. et Roum.

55. Phoma persicina (B. et C.) Sacc. Sphæropsis persicina B. et C. 434 – Peritheciis minutis, nitidis, ocellatis, epidermide centro albo-punctata tectis; sporulis oblongis breve pedicellatis, 1-2-nucleatis, 15 ≈ 5-7.

Hab. in ramis Persicæ, Pensylvania, in Amer. bor.

56. Phoma persicaria Schulz. et Sacc. Micr. Slav. n. 47. Schulz. III. 435 Fung. Slav. n. 682. — Peritheciis subgregariis, globosis, peridermio tectis, 0,2-0,25 mill. diam.; ostiolo obtuso, vix corticem perforante; nucleo albo; sporulis exiguis, ellipticis, hyalinis, 4-6 μ. longis; basidiis obsoletis.

Hab. in ramis corticatis Persicæ vulgaris, pr. Vinkovce.

57. Phoma Persicæ Sacc. Mich. I. p. 526. — Peritheciis laxe gre- 436 gariis, globoso-lenticularibus, ½6-½5 mill. diam., epidermide vix tumidula velatis; sporulis oblongo-ovoideis, 8 ≈ 3, 2-guttulatis, hyalinis; basidiis æquilongis, cylindro-conicis, suffultis.

Hab. in ramulis nondum exsiccatis Persicæ, Saintes in Gallia (Brunaud).

58. Phoma Potonicana Sacc. Mich. I. p. 126. — Peritheciis grega-437 riis v. hinc inde in cæspitulos parvos aggregatis, erumpentibus, globulosis vix papillatis, aterrimis, contextu celluloso-fuligineo; sporulis ovato-ellipsoideis, 8-10 ≈ 4, hyalinis, e strato proligero immediate oriundis.

Hab. in ramulis corticatis Drupaceæ? in Thiergarten Berolini in Germania (H. Potoniè in herb. P. Magnus).

59. Phoma leucostoma Lév. Ann. Sc. Nat. 1846, pag. 282. — Peri- 438 theciis sparsis vel approximatis, innatis, compressis, intus nigris, receptaculo corticali immersis; ostiolis papillatis, pertusis, discum album perforantibus; sporulis perexiguis, curvulis, utrinque obtusis.

Hab. ad ramos Spirææ hypericifoliæ, in hortis Parisiensibus.

60. **Phoma Sorbariæ** Sacc. Cfr. Syll. II. p. 644. — Peritheciis gre-439 gariis, subcutaneis, globoso-depressis; sporulis fusoideis, biguttulatis, hyalinis, 7-9 ≥ 2,5; basidiis filiformibus, 17-20 ≥ 1.

Hab. in trunculis emortuis Spirææ (Sorbariæ) sorbifoliæ, in Germania. — Spermogonium Diaporthes Sorbariæ.

61. Phoma Mali Schulz. et Sacc. Micr. Slav. n. 42. Schulz. Ill. Fung. 440 Slav. n. 783. — Peritheciis gregariis subcutaneis, depressis; ostiolo vix erumpente; sporulis oblongo-fusoideis, 8 μ. long., 2-guttatis, basidiis duplo longioribus, filiformibus, suffultis.

Hab. in ramis Piri Mali, pr. Vinkovce. — Status spermogonicus probabiliter Diaporthes ambiguæ. An eadem ac Phoma ambigua (Nits.) Sacc.

62. Phoma ambigua (Nits.) Sacc. Mich. I. p. 520. — Peritheciis gre- 441 gariis subcutanéis, compressis, atro-olivaceis; sporulis fusoideis, 8 ≈ 3; basidiis filiformibus, 18 ≈ 1.

Hab. in ramulis Piri communis, in Gallia. — Spermogonium Diaporthis ambiguæ Nits. (Syll. I. p. 669).

63. Phoma enteroleuca Sacc. Mich. I. p. 358. — Peritheciis hinc inde 442 acervulatis, peridermio tectis, dein erumpentibus, globulosis, $\frac{1}{4}$ mill. diam., vix papillatis, diu nucleo albo farctis; sporulis ovoideo-oblongis, $4 \approx 1\frac{1}{2}$, eguttulatis, hyalinis (basidiis nullis visis).

Hab. in ramulis Piri et Syringæ, in Gallia et Germania.

64. Phoma Cydoniæ Sacc. et Schulz. Micr. Slav. n. 49. Schulz. Ill. 443 Fung. Slav. n. 89, 91 et 94. — Peritheciis subgregariis, globosodepressis, ostiolo obtuso vix erumpente, subinde liberatis conicis-

que; sporulis ellipsoideo-oblongis, 2-guttatis, hyalinis, 8-9 μ , long.; basidiis initio breviusculis, dein liberatis filiformi-uncinatis.

Hab. in ramis corticatis vel denique decorticatis Cydoniæ vulgaris, pr. Vinkovce.

65. Phoma Vepris Sacc. Cfr. Syll. I. p. 668. — Peritheciis gregariis, 444 epidermide initio velatis, globoso-depressis; sporulis fusoideis, 6 ≈ 1,5, biguttulatis, brevissime stipitatis.

Hab. in ramis corticatis Rubi fruticosi, in Germania, Ita-

lia, Gallia. - Spermogonium Diaporthes Vepris.

66. Phoma Mülleri Cooke in Grev. — Punctiformis, sparsa; perithe- 445 ciis minutis, tectis; ostiolis brevibus, cuticulam perforantibus; sporulis anguste ellipsoideis, 2-guttulatis, hyalinis, 10-12 ≈ 3.

Hab. in sarmentis Rubi, Eastbourne in Britannia (C. J. Mül-

LER).

67. Phoma Corticis Fuck. Symb. Myc. p. 378. — Peritheciis sparsis, 446 minutis, tectis, demum per epidermidem erumpentibus, globosis, perforatis, atris, nucleo albo; sporulis cylindraceis, 1-4-guttulatis, rectis, 22 ≈ 3, hyalinis.

Hab. in sarmentis vivis Rubi fruticosi, prope Estrich in

Germania.

68. Phoma Ruborum West. Exs. n. 1234, Kickx Fl. Fl. I. p. 436. — 447 Peritheciis innatis, dein superficialibus, convexis, subdimidiatis, brunneo-nitidulis, subastomis, epidermide sæpe longitudinaliter fissa tectis; sporulis cylindraceis, obtusis, rectis curvulisve, obsolete guttulatis.

Hab. in sarmentis Ruborum, in Belgio frequens.

69. Phoma Rosæ Schulz. et Sacc. Micr. Slav. n. 46 (sub nomine Pho-448 mice Rosarum). Schulz. III. Fung. Slav. n. 708. — Peritheciis epidermide prominula tectis, globoso-depressis, intus pallidis, 0,5-1 mill. diam.; ostiolo vix erumpente; sporulis ovatis v. fusoideis, 2-guttatis, hyalinis, 6-10 u. long.; basidiis fasciculatis filiformibus, sporula duplo et plus longioribus.

Hab. in ramis Rosarum cultarum, pr. Vinkovce — Est status spermogon. Diaporthes. An eadem sit ac Ph. Rosarum Mont,

non liquet.

70. Phoma aculeorum Sacc. Mich. I. p. 35S. — Peritheciis gregariis, 449 punctiformibus, $\frac{1}{10}$ mill. diam., conoideis, nigris, initio epidermide velatis; sporulis cylindraceo-oblongis, sæpe curvulis, $3-4 \approx 1$, obsolete 2-guttulatis, hyalinis; basidiis fusoideis, crassiusculis, suffultis.

Hab. in aculeis languidis Rosarum, prope Alençon in Gallia (C. C. Gillet).

71. Phoma pusilla Schulz. et Sacc. Micr. Slav. n. 48. Schulz. III. 450 Fung. Slav. n. 691. — Peritheciis cortice innatis, sparsis, globoso-depressis, perexiguis, 0,1-0,2 mill. lat., intus pallidis; ostiolo obsoleto, obtuso; sporulis oblongis, 4-5 μ. long., hyalinis, rectis; basidiis filiformibus, triplo longioribus, fasciculatis, suffultis.

Hab. in ramis Rosæ caninæ, prope Vinkovce.

72. Phoma Rosarum Dur. et Mont. Alg. 604. Syll. n. 979. — Peri- 451 theciis minutulis, innato-prominulis, epidermide integra aut tandem stellatim fissa tectis, atro-fuscis, intus niveis; sporulis innumeris, lineari-oblongis, hyalinis, utroque fine 1-guttatis.

Hab. in ramis emortuis Rosæ sempervirentis, Alger (Du-RIEU).

73. Phoma sepincola (Kickx) Sacc. Sphæropsis sepincola Kickx Fl. 452 Fl. I. p. 400. Sphæria sepincola Desm. non Fr. — Peritheciis tectis, minutis, globulosis v. sublenticularibus, demum epidermidem perforantibus, atro-opacis, pertusis; nucleo albido; sporulis elliptico-cylindraceis, obtusis, interdum lenissime curvis.

Hab. in ramulis emortuis Rosarum, in Belgio.

74. Phoma incarcerata (Nits.) Sacc. Mich. II. p. 95. — Peritheciis ⁴⁵³ gregariis minutis, globoso-depressis, subcutaneis; sporulis fusoideis, 8 ≈ 2, 2-guttulatis; basidiis arcuatis, 20 ≈ 1, suffultis.

Hab. in ramis corticatis Rosæ caninæ et Banksianæ, in Germania et Italia. — Diaporthes incarceratæ (B. et Br.) spermogonium.

75. Phoma Tandilensis Speg. F. Arg. Pug. IV. n. 279. — Peritheciis 454 hemisphærico-lenticularibus, $100\text{-}120~\mu$. d., primo tectis, dein erumpentibus, v. cortice secedente liberis, atris, crassiuscule membranaceis, contextu indistincte parenchymatico, fuligineo; ostiolo minuto pertusis, glabris, vix basi hyphis gracilibus, 3 μ . crass., repentibus, ornatis; sporulis cylindraceis, utrinque obtusiuscule rotundatis, 8– $10 \approx 2$, grosse 2-guttulatis, medio sæpe subcoarctatis, granulosofarctis, hyalinis.

Hab. in caulibus foliisque emortuis Margyricarpi setosi, in arenosis montuosis «Sierra del Tandil» in Argentina.

76. Phoma fusigera (B. et C.) Sacc. Spheropsis fusigera B. et C. 455 North Am. Fungi n. 413 (bis). — Peritheciis sparsis, apice granuloso-lateritiis; sporulis subfusiformibus, enucleatis, inæquilateralibus, 35-38 φ . longis.



Hab. in ramis Mespili, in Pensylvania, regione America borealis (Michener).

77. Phoma semiimmersa Sacc. Mich. I. p. 97. — Peritheciis spar- 456 sis, depressis, minutis, initio velatis; sporulis fusoideis, 12-14 \times 3, 2-guttatis, hyalinis; basidiis bacillaribus, 25 \times 2, suffultis.

Hab. in ramis Crategi Oxyacanthæ, Rouen in Gallia (Letendre). — Spermogonium Diaporthes.

78. Phoma Cratægi Sacc. Mich. I. p. 248. — Peritheciis erumpenti- 457 bus, subglobosis irregularibusque, nucleo albo; sporulis oblongis, minutissimis, 4 \times 1,5, hyalinis.

Hab. in ramis corticatis Cratægi Oxyacanthæ, Vittorio in Italia boreali, socia Otthia Cratægi, cujus videtur spermogonium.

79. Phoma japonica Sacc. Mich. I. p. 521, II. p. 95. — Peritheciis 458 velatis, minutis, nigris, globoso-depressis vel oblongis, quandoque zona nigra plagulas limitante circumdatis; sporulis fusoideis, 6-10 \(\times 2-3\), 2-guttulatis; basidiis uncinatis, 25×1 , suffultis.

Hab. in ramis Kerriæ japonicæ, in Italia et Gallia. —

Spermogonium Diaporthes japonica.

80. Phoma Granati Sacc. F. Ven. Ser. V. p. 200. — Peritheciis gre- 459 gariis, lenticulari-globulosis, membranaceis, contextu parenchymatico fuligineo, ¹/10 mill. diam.; ostiolo minuto impresso; sporulis oblongo-subfusoideis, 15 ≈ 5, quandoque curvulis, hyalinis, sterigmatibus filiformibus, æquilongis, fultis.

Hab. in calycibus, petalis, rarius in foliis exsiccatis Punicæ

Granati, Selva (Treviso) in Italia bor.

81. Phoma Eucalypti Cooke et Kickx. Grev. 1881, p. 82. — Erum- 460 pens, gregaria; peritheciis atris, semiliberis, maculas punctatas formantibus; sporulis elongato-ellipticis, hyalinis, continuis, 10- 12 = 2.8.

Hab. in cortice interiore Eucalypti Globuli, in California. 461
82. Phoma eucalyptica (Thüm.) Sacc. Coniothyrium Eucalypti Thüm.
Contr. Myc. Lus. n. 341. — Peritheciis numerosissimis, dense gregariis, pro ratione magnis, epidermide primo tectis, demum irregulariter disrumpentibus emersisve, membranaceis, nigris, subhemisphæricis demum applanatis; sporulis numerosis, cylindraceis, rectis vel interdum minime arcuatis, utrinque rotundatis, simplicibus, enucleatis, hyalinis, 3-3,5 ≈ 1,5.

Hab. in ramis emortuis Eucalypti Globuli, Pinhal de Valle de Canas pr. Coimbra in Lusitania (Moller).

83. Phoma rimiseda Sacc. Mich. II. p. 380 (sub nom. Ph. rimicola). 462

— Peritheciis longitudinaliter dense aggregatis, e corticis rimis erumpentibus, globosis, papillatis, $^{1}/_{2}$ mill. diam., nigris intus pallidis; contextu parenchymatico solido, fuligineo; sporulis oblongo-fusoideis, $18-21 \approx 4 ^{1}/_{2}-6 ^{1}/_{2}$. utrinque acutiusculis, varie guttulatis nubilosisque, hyalinis; basidiis bacillaribus, dense fasciculatis, $20 \approx 2$, suffultis.

Hab. in rimis ramorum corticatorum Vitis viniferæ, Padova in Italia boreali (Bizzozero). — A ceteris Phomæ et Sphæropsidis speciebus in Thum. «Pilz. d. Weinst.» descriptis sporulis multo majoribus dignoscenda.

84. Phoma viticola Sacc. Mich. II. p. 92. — Peritheciis sparsis, epi-463 dermide velatis, globosis, papillulatis, vix '/₀ mill. diam.; contextu laxe parenchymatico fuligineo; sporulis ellipsoideis, subinæquilateralibus, 7≈4, eguttulatis, hyalinis; basidiis filiformibus, subæquantibus, suffultis.

Hab. in sarmentis Vitis viniferæ, Rouen in Gallia (Mal-Branche). — Ab affini Ph. Vitis Bon. differt sporulis duplo majoribus.

85. Phoma Vitis Bon. Abhandl. Myc. p. 14, Pirotta F. Vit. p. 54. — 464 Peritheciis minutis, punctiformibus, sparsis, depresso-globulosis, nigris; ostiolo minuto, primo conico, epidermidem perforante; sporulis ovato-ellipticis, 3-3,5≈1-2, hyalinis; basidiis simplicibus, subventricosis.

Hab. in sarmentis Vitis viniferæ, in Italia, Germania, Austria et Britannia.

86. Phoma longispora (Thüm.) Cooke in Grev. Leptothyrium longi- 465 sporum Thüm. Weinst. p. 153. — Peritheciis dense gregariis minutis, in areis dealbatis corticalibus, innato-prominulis, globoso-depressis, atris; sporulis cylindraceis, rectis curvulisve, utrinque rotundatis, hyalinis, 20 ≈ 4-4,5; basidiis fasciculatis, elongatis, rectis.

Hab. in sarmentis Vitis viniferæ, Parma in Italia bor. (Passerini); et Vitis æstivalis, Aiken in Carolina (Ravenel).

87. Phoma Ampelopsidis (C. et E.) Sacc. Sphæropsis Ampelopsidis 466 C. et Ell. in Grevill. tab. 99, fig. 8. — Gregaria, tecta; peritheciis subglobosis, atris, cortice elevatis, papillatis; sporulis lanceolatis vel subellipticis, utrinque rotundatis, hyalinis, 30-35 \pm 12.

Hab. in ramis Ampelopsidis quinquefoliæ, New Yer-

sey, in Amer. bor.

88. Phoma ampelina B. et C. North Amer. F. n. 380. — Subcuticu- 467 laris, hysteriiformis; sporulis fusiformibus, 12 μ. longis.

Hab. in sarmentis Vitis, in Pensylvania, regione Amer. bor. (Michener). — Pustulæ corticales hysteriiformi-tumidulæ.

- 89. Phoma Cookei Pirotta Vit. pag. 55, tab. XII. fig. 21, Ph. Vitis 468 Cooke nec Bonord. Peritheciis minutis, sparsis, punctiformibus, nigris, globosis subglobosisve, primum epidermide tectis, dein erumpentibus; basidiis filiformibus, stipatis, flexuosis, hyalinis; sporulis baculiformibus, curvatis, apicibus obtusissimis, simplicibus, hyalinis, 13 = 4,5 a.
- Hab. ad ramulos Vitis viniferæ prope nodos, in Britannia.
 90. Phoma confluens B. et C. North Amer. Fungi n. 3S3. Ma- 469 culis elevatis marginatis; peritheciis nigris confluentibus; sporulis brevibus, oblongis, 5 p. longis.

Hab. in sarmentis Vitis, in America boreali.

91. Phoma pallens B. et C. North Amer. Fungi n. 381. — Subcu- 470 ticularis, hysteriiformis; sporulis oblongo-fusoideis, utrinque apiculatis sub-æqualibus, 5-7,5 y. long.

Hab. in ramis tenellis dealbatis Vitis, Ampelopsidis, nec non Celastri scandentis, in Pensylvania, regione Amer. bor.

92. Phoma Peckiana (Thüm.) Sacc., Spheropsis Peckiana Thüm. 471 Weinst. Pils. p. 149. — Peritheciis gregariis, primo epidermide tectis, demum erumpentibus, liberis, conico-globosis, papillatis, mediis, nigris; sporulis non pedicillatis, longe ellipsoideis vel oblongo-ovatis, utrinque obtuso-rotundatis, medio vel non minime inflexis, simplicibus, uni- vel trinucleatis, nucleis magnis, 30 ≈ 10 μ., hyalinis.

Hab. in sarmentis emortuis Vitis Labruscæ, Albany N. Y. in America septentr. (Реск).

93. Phoma nidulans Grogn. Sacc. Mich. II. pag. 341. — Peritheciis 472 hinc inde approximatis, oblongis, erumpentibus, intus griseis; sporulis fusoideis, $8-10\approx 21/2$, biguttatis, hyalinis; basidiis filiformibus, $25-30\approx 11/2$, fasciculatis, e basi proligera lutescenti oriundis, suffultis.

Hab. in ramis corticatis Ampelopsidis hederaceæ, Pau in Gallia. — Spermogonium Diaporthes.

94. Phoma Edgworthiæ Sacc. Mich. II. p. 538. — Peritheciis grega- 473 riis subcutaneis, sæpe linea nigra, tortuosa, perithecia pauca, insulata cingente; sporulis ovato-fusoideis, $7-8 \approx 2.5$, 2-guttulatis, hyalinis; basidiis filiformibus, $30 \approx 1.5$.

Hab, in ramis putrescentibus Edgworthiæ chrysanthæ, Padova (Bizzozero).

95. Phoma insculpta (Roum.) Sacc., Diplodia insculpta Roum. Fung. 474 Gall. n. 22. — Peritheciis ligno basi infossis, gregariis, oblongis; sporulis fusoideis, 2-guttulatis, 8=2; basidiis uncinatis, 24=1, fultis.

Hab. in ramulis decorticatis Daphnes Gnidii, Collioure in Gallia merid. (Roumeguére). — Spermogonium Diaporthes.

96. Phoma diplodioides Sacc. Mich. I. p. 522. — Peritheciis subcu-475 taneo-erumpentibus, sparsis vel hinc inde aggregatis, globoso-co-noideis, ¹/₄ mill. d., papillatis, nigris; sporulis fusoideis, utrinque obtusiusculis, 12-15 \(\times 3-3\)/₂, hyalinis; basidiis brevissimis, linearibus, suffultis.

Hab. in ramis corticatis Æsculi Hippocastani, Rouen in Gallia (LETENDRE).

97. Phoma coneglanensis Sacc. Mich. II. p. 340. — Peritheciis sub- 476 cutaneis, gregariis, oblongis; sporulis oblongo-fusoideis, 7-8 = 3, biguttulatis, hyalinis; basidiis acicularibus, 15 = 3, suffultis.

Hab. in petiolis ramulisque Æsculi Hippocastani, in Ita-

lia et Gallia. - Spermogonium Diaporthes.

98. Phoma controversa (Nits.) Sacc. Mich. II. p. 616. — Peritheciis 477 gregariis, subtectis, intus griseis; sporulis fusoideis, 7-8 \(\times 2-2\frac{1}{4}\), hyalinis, 2-guttulatis; basidiis curvulis, 12 \(\times 1\).

Hab. in ramulis Fraxini excelsioris, in Gallia. — Sper-

mogonium Diaporthes.

99. Phoma fraxinea Sacc. Mich. I. p. 526. — Peritheciis gregariis, 478 subcutaneo-erumpentibus, globoso-depressis, 110 μ. diam., pertusis; contextu parenchymatico ochraceo-fusco; sporulis ovoideis, 8 ≈ 4, 1-2-guttatis, hyalinis.

Hab. in ramis Fraxini Orni, in Gallia et Germania.

100. Phoma minima Schulz. et Sacc. Micr. Slav. n. 45, Schulz. Ill. 479 Fung. n. 805. — Peritheciis laxe gregariis, subcutaneo-erumpentibus, atris, 150 μ. diam., apice obtusis; sporulis tereti-oblongis, utrinque obtusis, 2-guttatis, 4-5 μ. longis, hyalinis; basidiis filiformibus, sporula quadrupla longioribus.

Hab. in ramis corticatis Fraxini excelsioris, prope

Vinkovce in Slavonia.

101. Phoma domestica Sacc. Mich. II. p. 90. — Peritheciis epider- 480 mide velatis, gregariis, subhemisphæricis, ½ mill. d., pertusis; sporulis ovoideo-oblongis, 5 ≈ 2, hyalinis; basidiis filiformibus, 3-4 p. long., suffultis.

Hab. in ramulis Jasmini officinalis, Saintes in Gallia (Brunaud).

102. Phoma depressa (Lév.) Sacc. Mich. II. 94, Sphæropsis depressa 481 Lév., Phoma resecans Sacc. Mich. I. p. 257. — Peritheciis subcutaneis, dein erumpentibus, globosis oblongisve, atris, copiosis, denique depressis, poro angusto leniterque prominulo pertusis; sporulis 10 \(\times 2.5-3\), biguttatis; basidiis filiformi-uncinatis, 20-28 \(\times 1.5\).

Hab. in ramis corticatis emortuis Syringæ vulgaris, in

Gallia, Belgio et Italia.

103. Phoma Syringæ (Pr.) Sacc., Gerulajacta Syringæ Pr. Fung. 482 Hoyersw. n. 317. — Peritheciis cortici innatis, corneis, subpapillatis, atris; nucleo albo; basidiis filiformibus, curvatis albis; sporulis clavato-obovatis, albis.

Hab. in ramulis Syringæ sinensis, in hortis Hoyerswerd.

104. Phoma syringina Sacc. Cfr. Fuck. Symb. App. I. pag. 320. — 483

Peritheciis sparsis, sub epidermide nidulantibus, minutis; sporulis oblongo-lanceolatis, continuis, biguttulatis, hvalinis, 8 = 3.

Hab. in ramis Syringæ vulgaris, socia Diaporthe nodosa, cujus est spermogonium, in Rhenogovia.

105. Phoma syringica Thum. Pilzfl. Sibir. n. 789. — Peritheciis spar- 484 sis, mediis, hemisphærico-subconicis, prominentibus, obsolete ostiolatis, nigris; sporulis ellipsoideis, utrinque rotundatis, raro ovoideis, simplicibus, enucleatis, dilute fuligineis, 4 ≥ 2.

Hab. in ramulis tenuibus aridis Syringæ vulgaris, in hortis prope Minussinsk in Sibiria asiatica. — A Phoma depressa seu resecante Sacc. in Mich. I. p. 257: sporulis duplo minoribus bene distinguenda. An Phoma Syringæ B. et C. in Peck Rep. on St. Mus. N. Y. (nomen) in ramulis Syringæ in Amer. bor. huc spectet, non liquet.

106. Phoma laurina Thüm. Contr. Fung. Lit. n. 164, tab. I. fig. 10. 485 — Peritheciis gregariis, magnis, prominulis, primo tectis, demum liberis, orbiculatis, depresso-globosis, atris; sporulis longe-ellipticis, utrinque acutato-rotundatis, non vel binucleatis, simplicibus, 4-6 ≈ 1,5-2, hyalinis.

Hab. ad ramulos emortuos Lauri nobilis, Gorizia in Italia boreali.

107. Phoma laurella Sacc. Mich. II. p. 616 (sub nom. Phoma nobilis). 486 — Peritheciis gregariis, globuloso-depressis, suboblongis, subgriseis, tectis; sporulis oblongo-fusoideis, rectiusculis, 8-10 ≈ 3-4, hyalinis; basidiis bacillaribus, 8 ≈ 1,5.

Hab. in ramis corticatis Lauri nobilis, Saintes in Gallia (Brunaud). — Spermogonium Diaporthes.

108. Phoma dolichopus Penz. Mich. II. p. 427. — Peritheciis sparsis, 487 hypodermeis, demum erumpentibus, epidermide cinctis, sphæroideis, vix mamillatis, contextu filamentoso, brunneolis, 250-280 μ . d.; sporulis minutis, ellipsoideis, 3-3,5 \approx 2-2,5, hyalinis, eguttulatis; basidiis longissimis, filiformibus, flexuosis, fasciculatis, 30-35 \approx 1, 5-2, hyalinis.

Hab. in ramulis vivis, corticatis Citri Limonum, in horto botanico Patavino.

109. Phoma densipes Penz. et Sacc. F. Agrum. II. Contr. p. 14. — 488 Peritheciis aggregatis, hypodermicis, dein prorumpentibus, subglobosis, atro-brunneis; contextu parenchymatico, 210-240; ostiolo late aperto; basidiis dense congregatis, simplicibus, cylindraceis, integris, brunneolis vel fuscescentibus, 5-10 \(\times 2-2.5\); sporulis oblongo-ellipticis, utrinque attenuatis, obtusis, eguttulatis, hyalinis, 8-10 \(\times 3-3.5\).

Hab. in ramulis emortuis Citri Limonum, Mortola in Italia boreali.

110. Phoma Aurantiorum (Rabenh.) Sacc. Sphæropsis Aurantiorum 489 Rabh. Not. XXIII. in Marcucci Un. itin. 1866 (non vidi). — Sporulis minutis, oblongis, utrinque obtuse rotundatis, continuis, hyalinis.

Hab. in ramulis Citri Aurantii, in Italia. — Specimina sub nomine Sphæropsidis Aurantiorum Rabenh. in Roum. F..G. n. 90, iterum observata, ad Glæosporium intermedium Sacc. ducenda esse puto.

111. Phoma Limonis Thum. et Bolle, Contr. Fl. mic. Lit. p. 29. — 490 Peritheciis dense gregariis, patellæformibus, planis, immersis, minutis, nigris; sporulis minutissimis, cylindraceis, enucleatis, utrinque obtusatis, vix subrotundatis, hyalinis, 3 × 1-1,5; basidiis haud visibilibus.

Hab. in ramulis aridis Citri Limonum, Gradisca (Тнüмем), Coimbra (Moller), in Gallia (Roumeguère), Padova (Ремгід).

112. **Phoma Limoniæ** Penz. Mich. II. p. 429. — Peritheciis grega-491 riis, hypodermeis, sphæroideis, depressis, 120-140 μ . diam., atrobrunneis; contextu parenchymatico; sporulis breve ellipticis, utrinque rotundatis, 3,5-4 \approx 2,5-3, hyalinis, 2-guttulatis; basidiis brevissimis, 6-7 \approx 4-5.

 ${\it Hab}$. in ramulis siccis Limoniæ australis, in frigidariis Stra in Italia boreali.

113. Phoma iners Penz. Mich. II. p. 428. — Peritheciis sparsis, hy- 492 podermicis, sphæroideis, demum prorumpentibus, aterrimis, 300-400 u. diam.; contextu parenchymatico; sporulis breve ellipticis, 6-7 =3,5-4,5, hyalinis, eguttulatis, rarius biguttulatis; basidiis obsoletis vel nullis.

Hab. in maculis albidis ramulorum subvivorum Citri Aurantii, in horto botanico Patavino. - Nonnullis notis ad Phyllostictam nutat.

114. Phoma myelocola (Pr.) Sacc. Sphærocista myelocola Pr. Hoy - 493 ersw. n. 308. - Peritheciis tenuibus, subglobosis, minutis, confertis, subpapillatis, fuscis, in myelostromate (a? n) elongato conceptis; nucleo albo, mucoso; basidiis filiformibus; sporulis fusiformibus, subcurvatis, albis; cirris albis.

Hab. in cortice exsiccato Citri Aurantii, in hibernaculis Hoverswerda.

.115. Phoma scabella Penz. Mich. II. pag. 430. — Peritheciis dense 494 gregariis, hypodermeis, demum erumpentibus, sphæroideo-depressis, 250-300 \(\mu\). diam.; ostiolo epidermide albescente circumdato; sporulis oblongo-ellipticis, utrinque acutiusculis, biguttulatis, hyalinis, 7-9 = 2.5-3.5; basidiis dense aggregatis, filiformibus, simplicibus, $25-36 \approx 2-2.5$, subarcuatis.

Hab, in ramulis emortuis Citrorum, Padova in Ital. bor.

116. Phoma Citri Sacc. Fungi Ven. novi vel critici, Ser. V. p. 294, 495 Mich. II. p. 427. — Peritheciis sublenticularibus, majusculis, 250-350 µ. diam., depressis, vix papillatis, sæpius elongatis, immersis, demum liberis, aterrimis; sporulis elongato-ellipticis vel oblongis, utrinque obtusiusculis, hyalinis, biguttulatis, 7-8,5 = 2, 5-3,5; basidiis longis, dense stipatis, 25-40 = 2-3, hvalinis, guttulatis, denique uncinatis.

Hab. in ramis et in ligno decorticato Citrorum, in Italia boreali et Lusitania. — Spermogonium Diaporthes.

117. Phoma Nerii Speg. Mich. I. p. 482. — Stromate late ambiente, 496 lignum extus nigrificante; peritheciis minutis, ligno corticato vel decorticato immersis, atris; sporulis ellipticis vel oblongo-ellipticis, $6-9 \approx 3-4$, 2-guttulatis, hyalinis.

Hab. in ramulis emortuis Nerii Oleandri, Conegliano in Ital. bor. — Spermogonium Diaporthes.

118. Phoma? heteromorpha Schulz, et Sacc. Micr. Slav. n. 44, Schulz. 497 Ill. Fung. Slav. n. 844. — Peritheciis gregariis, subcutaneo-erumpentibus, globulosis, obtusis, 1/2-3/4 mill. diam., intus pluriloculari-

bus (?); sporulis ellipsoideis vel suboblongis, utrinque rotundatis, $6-9 \approx 3-4$, 2-guttatis, hyalinis; basidiis obsoletis.

Hab. in ramis corticatis Nerii Oleandri, prope Vinkovce. — Totus habitus et sporulæ Phomæ, hinc loculi verisimiliter spurii et orti ex casuali nuclei sporigeri partitione.

119. Phoma cymbispora (B. et C.) Sacc., Sphæropsis cymbispora 498 B. et C. North Amer. F. n. 414. — Peritheciis sparsis, vix prominulis, obtusis, epidermide cinctis; sporulis cymbæformibus, endochromate utrinque retracto, 15 μ. longis, subchlorinis.

Hab. in ramulis Vaccinii, New England in America bor. (Russel).

120. **Phoma affinis** Brunaud Rev. Myc. IV. pag. 225. — Peritheciis 499 sparsis, punctiformibus, minutis, nigris, nitidis; sporulis ovoideis, 2-guttulatis, subhyalinis, 7 ≈ 2,5.

Hab. in ramulis emortuis Ericæ scopariæ, Saintes in Gallia.

121. Phoma Callunæ Karst. Hedw. 1884, p. 60. — Peritheciis sub- 500 sparsis, sphæroideo-applanatis, epidermide semper tectis; ostiolo minuto, papillato, prominulo, atro, 0,2 mill. lat.; sporulis ellipsoideis, utrinque obtusissimis et rotundatis, hyalinis, eguttulatis, 12-14 ≈ 7-8.

Hab. ad ramos exsiccatos Callunæ vulgaris, Mustiala in Fennia.

122. Phoma Ericæ (Fr.?) Sacc. Mich. II. p. 336, Sphæria Ericæ Fr. 507 El. II. p. 101 (?). — Peritheciis majusculis, denique superficialibus, globoso-depressis, papillulatis, nigris, tandem dilabentibus et in matrice maculam subcircularem $\frac{1}{2}$ mill. d., nigricantem relinquentibus; sporulis oblongo-ovoideis, utrinque obtusiusculis, $14-15 \approx 6-7$, nubilosis, hyalinis; basidiis bacillaribus, $12-15 \approx 1\frac{1}{2}$, hyalinis, suffultis.

Hab. in trunco emortuo Ericæ vulgaris, Brionne in Gallia (MALBRANCHE).

123. **Phoma obturata** (Fr.) Sacc., *Sphæria obturata* Fr. S. M. II. 502 495. Cfr. Syll. II. 421, Curr. Simpl. Sphær. p. 329. — Peritheciis erumpentibus, subliberis, levibus, regularibus, atris, rimis pluribus dehiscentibus, demum collabascentibus; sporulis curvulis, hyalinis, 10 μ. longis.

Hab. in ramulis foliisque Ericacearum, in Suecia.

124. Phoma Rhois Sacc. Mich. II. p. 340. — Peritheciis gregariis, 503 subcutaneo-erumpentibus, globoso-depressis, obsolete pertusis; spo-

Sphærioideæ, Hyalosporæ, Phoma.

86

rulis, oblongo-teretiusculis, $10 = 2-2^{1}/4$, 2-guttulatis; basidiis filiformi-hamatis, 25 = 1, suffultis, hyalinis.

Hab. in ramulis emortuis Rhois Cotini, in Gallia (ROUMEguère). - Spermogonium Diaporthes Rhois Nits.

125. Phoma pulchella (B. et C.) Sacc., Sphæropsis pulchella B. et C. 504 North Amer. Fungi n. 415. - Peritheciis in stromate communi circinantibus; sporulis fusiformibus, brevibus, hyalinis, trinucleatis; basidiis brevibus.

Hab. in ramis Rhois copallinæ, in Carolina inferiore.

126. Phoma Nitrariæ (Thum.) Sacc., Sphæropsis Nitrariæ Thum. 505 Pilzfl. Sibir. n. 792. — Peritheciis sparsis, punctiformibus, prominentibus, primo epidermide tectis, demum liberatis et e rima exsertis, parvulis, nigris; sporulis ovatis vel ellipsoideis vel globuloso-ovoideis, continuis, utringue rotundis, enucleatis, 8-10 \simes 5-7. hyalinis; basidiis brevissimis, achrois.

Hab. in ramulis vivis Nitrariæ Schoberi, in salsis prope Ujbat, fluv. Sibiriæ.

127. Phoma Corni Fuck. Symb. 207 (ad Diaporthem Corni), Mich. 506 II. p. 94. — Peritheciis sparsis, sub epidermide nidulantibus, demum erumpentibus, et epidermide nigrificata cinctis, minutis, subglobosis, papillatis; sporulis oblongo-cylindraceis, curvulis, 2-3-guttulatis, 8-10 = 2-3 (a basidiis uncinatis 25 = 1 »).

Hab. in ramis corticatis Corni sanguineæ et albæ, in Germania et Gallia.

128. Phoma Corni-Suecicæ (Fr. p. p.) Sacc., Sphæropsis Corni-Sue- 507 cicæ (Fr. p. p.) Curr. Simpl. Sphær. p. 330, Sphæria Corni-Suecica Fr. p. p. Cfr. Syll. I. 547. - Peritheciis sparsis, depressis; ostiolo vix manifesto; sporulis cylindraceis, rectis, hyalinis, 5 \u03c4. longis.

Hab. in ramis Corni Suecicæ, in Suecia.

129. Phoma diatrypea (C. et E.) Sacc., Spheropsis diatrypea C. et E. 508, in Grevillea tab. 95, fig. 6. - Peritheciis confluentibus in stroma diatry poideum, atris, erumpentibus, epidermide fissa cinctis; sporulis ellipticis, hyalinis, in cirros pallidos emergentibus, 12 = 5.

Hab. in ramis Chionanthi, New Jersey in Amer. bor.

130. Phoma megasperma Speg. F. Argent. Pug. III. n. 98. - Peri- 500 theciis subepidermicis, densiuscule gregariis, lenticularibus, 100-120 μ. diam., membranaceis; contextu parenchymatico, olivaceofuligineo; ostiolo impresso pertusis; sporulis in sterigmatibus cylindraceis, parvulis, 10-18 = 5, hyalinis, acrogenis, ellipticis, utrin-

que obtuse acutatis, granuloso-farctis, non vel 1-guttulatis, 15-22 \approx 6-8, hyalinis.

Hab. ad ramulos foliaque emortua vel languentia Polygalæ myrtifoliæ, en el Paseo de Julio prope Buenos-Aires. — Forma ramulicola ad Dothiorellam vergit, forma vero foliicola ad Phomam accedit.

131. Phoma lirelliformis Sacc. Mich. I. p. 522. — Peritheciis parallele 510 dense gregariis, lineari-oblongis, $\frac{1}{2}-\frac{3}{4} \approx \frac{1}{8}$ mill. d., innatis, dein rimose erumpentibus; sporulis ovato-oblongis, rectis, 2-guttulatis, $7 \approx 3-3\frac{1}{2}$, hyalinis (basidiis non visis).

Hab. in ramis decorticatis Rhamni Alaterni, in Gallia. — Forma **ribicola**: sporulis $8 \approx 2.5$; basidiis bacillaribus, $20 \approx 2$, suffultis. — Affinis Ph. leptideæ, Ph. lirellatæ et Ph. striæformi, a quibus tamen satis differt.

132. Phoma pulla Sacc. Mich. II. p. 96, Ph. Hederæ Fuck. nec Desm. 511 — Peritheciis gregariis, epidermide subinde atrata velatis, depressis; sporulis oblongis, 8 ≈ 2, 2-guttulatis; basidiis uncinatis, 15-16 ≈ 1, suffultis.

Hab. in ramulis emortuis Hederæ Helicis, in Italia bor. et Gallia. — Spermogonium Diaporthes pullæ.

133. Phoma macrostoma Mont. Syll. n. 974 et Cent. VI. n. 42, in 512 Ann. 3, XI. p. 52. — Peritheciis tectis, gregariis, globoso-depressis, minutissimis, fusco-atris, poro amplo vertice pertusis; sporulis perexiguis, oblongo-ovoideis, hyalinis, utroque fine, 1-guttatis, 6- $7 \approx 2,5-3$.

Hab. in ramis Hederæ Helicis, apud Salon, Galloprovincia (Castagne).

134. Phoma Helicis Pass. et Beltr. F. Sic. n. 21. — Peritheciis sub- $_{513}$ globosis, tectis, fuscis, epidermidem sublevantibus; sporulis fusi-formibus, cylindricis, rectis, hyalinis, apicibus minute nucleatis, $_{13-15} \approx 2\frac{1}{2}$; basidiis non uncinatis.

Hab. in ramulis aridis Hederæ Helicis, Monostalla in Sicilia. — A Phoma pulla rite diversa.

135. Phoma Opuli Thum. Contr. Myc. Lus. n. 564. — Peritheciis 514 sparsis v. solitariis, globulosis, exsertis, nigris, mediis, epidermide cinctis; sporulis late ellipsoideis, utrinque rotundatis, uni- v. plerumque non nucleatis, hyalinis, 5 ≈ 4-4,5.

Hab. in ramulis subaridis Viburni Opuli, prope Lisboa in Lusitania (DA VEIGA).

136. Phoma tinea Sacc. Mich. I. p. 521. — Stromate obsoleto; pe-515



ritheciis cortice nidulantibus, gregariis, oblongis, $\frac{1}{2} = \frac{1}{4}$ mill. d.; nucleo griseo; sporulis fusoideo-oblongis, 8 = 2, 2-guttulatis, hyalinis; basidiis linearibus, sursum acutioribus, $15 = 1\frac{1}{2}$, hyalinis.

Hab. in ramulis emortuis Viburni Tini, Rouen in Gallia

(LETENDRE). — Spermogonium Diaporthes.

137. Phoma hyalina (B. et C.) Sacc., Sphæropsis hyalina B. et C. 516 North Amer. F. n. 409. — Peritheciis epidermide pustulata subtectis; sporulis ellipticis, hyalinis, 26-32 μ. longis.

Hab. in ramis Ribis rubri, Viburni dentati, Fraxini

Americanæ, in America boreali.

138. Phoma ribesia Sacc. Mich. I. p. 520 (*Ph. pungens*). — Peri- 517 theciis gregariis, tectis, erumpentibus, globoso-depressis; sporulis oblongo-fusoideis, subinæquilateralibus, $10 \approx 3^{1}/_{2}$, 2-guttulatis, hyalinis basidiis fasciculatis, filiformibus, subæquilongis.

Hab. in ramulis Grossulariæ, prope Rouen in Gallia (LE-TENDRE). — Spermogonium, ut videtur, Diaporthes pungentis Nits.

139. Phoma Grossulariæ Schulz. et Sacc. Micr. Slav. n. 43, Schulz. ⁵¹⁸ Ill. Fung. Slav. n. 790. — Peritheciis gregariis, globoso-depressis, initio epidermide velatis, apice obtuso pertusis, 0,2-0,3 mill. d.; sporulis oblongis, perexiguis, 6-9 μ. long., hyalinis; basidiis obsoletis.

Hab. in ramulis Ribis Grossulariæ, prope Vinkovce.

140. Phoma Lycii Sacc. Cfr. Hazl. Sph. der Lyc. p. 450, tab. XIV. 519 fig. 7-8. — Peritheciis gregariis subcutaneis, globoso-papillatis, atris, initio basi pilosis, dein calvescentibus; sporulis cylindraceo-oblongis, hyalinis (10-12 μ. longis?); basidiis duplo longioribus, acicularibus.

Hab. in ramulis Lycii barbari, socia Fenestella Lycii, in

Hungaria.

141. Phoma abdita Sacc. Mich. II. p. 96. — Peritheciis tectis, globoso-depressis, griseis, gregariis; sporulis fusoideis, 10 \(\times 2\), 2-guttatis, hyalinis; basidiis, 10-12 long., filiformibus, suffultis.

Hab. in ramis Meliæ Azedarach, Toulouse in Gallia. —

Spermogonium Diaporthes.

142. Phoma perforans (Lév.) Sacc., Sphæropsis perforans Lév. Ann. 521 Sc. Nat. 1846, p. 297. — Peritheciis gregariis, epidermide secedente cinctis; sporulis ellipticis, obtusis, pellucidis.

Hab. ad ramos Sterculiæ platanifoliæ, Avignon in Gal-

lia (Requien).

143. Phoma Volkameriæ Speg. Mich. I. p. 481. — Peritheciis asto- 522

mis (?), epidermide nigrificata atque tumefacta, nitente tectis, globoso-lenticularibus, 150-200; sporulis hyalinis, ellipticis, utrinque attenuatis, obtusiusculis, non vel 1-2-guttulatis, $7-11 \approx 3-5$.

Hab. in ramulis emortuis putrescentibus Volkameriæ fragrantis, Conegliano in Ital. bor. — Spermogonium Diaporthes.

144. Phoma viridarii Sacc. Mich. II. p. 96. — Peritheciis gregariis, 523 velatis, globoso-depressis, 120 μ . diam., poro pertusis; sporulis fusoideis, 9-10 \approx 3, 2-guttatis, hyalinis; basidiis brevioribus, cylindraceis, suffultis.

Hab. in ramis Magnoliæ grandifloræ, Saintes in Gallia (Brunaud). — Spermogonium Diaporthes.

145. Phoma stictica B. et Br. Ann. N. H. n. 400. — Peritheciis sub- 524 sparsis, exiguis, epidermide dein longitudinaliter fissa velatis; spòrulis oblongo-ellipsoideis, biguttulatis, hyalinis, 7-8 ≈ 3-3,5, stipitellatis.

Hab. in ramis putrescentibus Buxi sempervirentis, in Italia, Britannia, Austria, Gallia. — Spermogonium Diaporthes retectæ Fuck.

146. Phoma Robergeana Sacc. Mich. I. p. 520. — Peritheciis gre-525 gariis, subcutaneo-erumpentibus, globoso-depressis, vix pertusis; sporulis, $9 \approx 2$, eguttulatis, hyalinis, curvulis; basidiis filiformibus, $25-30 \approx 1^{1}/_{2}$.

Hab. in ramulis Staphyleæ pinnatæ, Saintes in Gallia (Brunaud). — Spermogonium Diaporthes.

147. Phoma Poinsettiæ Sacc. Mich. II. pag. 341. — Peritheciis laxe 526 gregariis, subcutaneis, globoso-oblongis, nigro-olivaceis; sporulis ovato-oblongis, 6-7 × 1¹/₂-2, utrinque obtusiusculis, 2-guttulatis, hyalinis; basidiis bacillaribus, crassiusculis, sesquilongioribus, suffultis.

Hab. in ramis emortuis Poinsettiæ pulcherrimæ, in calidariis Lyon in Gallia (Therry). — Spermogonium Diaporthes.

148. Phoma Ophites Sacc. Misc. myc. n. 2262. — Peritheciis subcu- 527 taneis, globoso-depressis, atro-olivaceis, subinde linea stromatica nigricante subcorticali cinctis; ostiolo obtuso, érumpente; sporulis fusoideis, rectis, $10 \approx 2$, 2-guttatis, hyalinis; basidiis acicularibus, fasciculatis, $15 \approx 1.5$, hyalinis.

Hab. in ramulis emortuis Hibisci syriaci, Saintes in Gallia (Brunaud). — Spermogonium Diaporthes Ophites Sacc.

149. Phoma exul Sacc. Mich. II. p. 95. — Peritheciis gregariis, te- 528 ctis stratoque stromatico nigro conjunctis, globoso-depressis, initio



griseis; sporulis cylindraceis, utrinque obtusiusculis, $10-11 \approx 2$, 2-guttatis, hyalinis; basidiis filiformibus, curvulis, suffultis.

Hab. in ramis corticatis Macluræ aurantiacæ, Saintes in Gallia. — Spermogonium Diaporthes.

150. Phoma Escalloniæ Sacc. Mich. II. p. 340. — Peritheciis gre-529 gariis, subcutaneis, oblongis, griseis; sporulis ovato-oblongis, 7 = 2, biguttatis, hyalinis; basidiis acicularibus, 15 = 1, suffultis.

Hab. in ramis corticatis Escalloniæ, Rouen in Gallia. —

Spermogonium Diaporthes.

151. Phoma Diospyri Sacc. Mich. I. p. 258. — Peritheciis gregariis 530 vel subaggregatis, cortice secedente, subsuperficialibus vel semi-immersis, globoso-papillatis, nigris, contextu parenchymatico subcarbonaceo; sporulis fusoideis, $7-8 \approx 2$, rectis v. leniter curvis, 2-guttulatis, hyalinis; basidiis fasciculatis, filiformibus, simplicibus ramulosisve, $18-20 \approx 1\frac{3}{4}$, hyalinis, e strato proligero subochraceo orientibus.

Hab. in ramis decorticatis Diospyri Loti, in horto botanico Patavino.

152. Phoma Kœlreuteriæ Sacc. Mich. II. p. 60. — Peritheciis pun- 531 ctiformibus, subtectis; sporulis oblongo-cylindraceis, 4 ≈ 1-2; basidiis duplo longioribus suffultis.

Hab. in ramis Kælreuteriæ paniculatæ, Bordeaux in Gallia.

153. Phoma mixta B. et C. North Amer. Fungi n. 388. — Subcor- 532 ticalis, pustulata, sero liberata; sporulis utrinque apiculatis, breve fusoideis, 6 μ . longis, subæqualibus; processibus filiformibus apice curvatis, intermixtis, 18 μ . longis.

Hab. in ramis corticatis Liriodendri, Viburni opulifolii, in Carolina et Pensylvania, regionibus Americæ bor. — «Processus verisimiliter sunt basidia jam liberata».

154. Phoma macropus B. et C. North Amer. Fungi n. 376. — Sub- 533 cuticularis; peritheciis sparsis cum cuticula secedentibus, demum collapsis; basidiis flexuosis, sporulâ breviter oblongâ, 5-6-plo longioribus.

Hab. in turionibus albis cujusdam fruticis, in Amer. bor.

155. Phoma seriata Lév. Ann. Sc. Nat. 1845, p. 63. — Erumpens; 534 peritheciis ovatis vel globosis nigris, seriatis, intus nigris; ostiolis obsolete papillatis, pertusis; sporulis ellipsoideis, continuis.

Hab. ad cortices, in insula Java (Junehunn).

156. Phoma Keckii (Thum.) Sacc. Sphæropsis Keckii Thum. in Rev. 535

Mycol. n. XV. — Peritheciis numerosis, dense gregariis, primo tectis, demum erumpentibus et epidermide ad basim cinctis, hemisphærico-subconicis, vix emersis vel protuberantibus, submagnis, aterrimis; sporulis ellipsoideis vel subglobulosis, sæpe apice angustatis, utrinque rotundatis, intus homogeneis, episporio tenui, $20-26 \approx 10-16$, achrois.

Hab. in caulibus subemortuis Calotropidis giganteæ, Canara in Ind. orient. (Dr. Keck).

157. Phoma Tecomæ Sacc. Fungi Ven. Ser. V. p. 201. — Peritheciis 536 sub epidermide parum tumidula, tenuissime fissa nidulantibus, hinc inde zona nigra circumscriptis, minutis, lenticularibus, nigris; sporulis fusoideis, 8 ≈ 3, utrinque obtusiusculis, 2-guttulatis, hyalinis, sterigmatibus filiformibus, curvulis, 20 ≈ 1, fultis.

Hab. in sarmentis Tecomæ radicantis, prope Treviso in Italia bor. et prope Rouen in Gallia. — Spermogonium Diaporthes.

158. Phoma Baculum (Ger.) Sacc., Sphæropsis Baculum Ger. in Gre-537 villea. — Peritheciis erumpentibus, subgregariis, obtusis, epidermide cinctis; sporulis cylindraceis, obtusis, hyalinis, in cirros ochraceos emergentibus, 20 ≥ 4.

Hab. in ramis Catalpæ, New York in Amer. bor.

159. Phoma pustulata Sacc. Cfr. Tul. Carp. II. p. 163. — Peritheciis ⁵³⁸ subcutaneis, gregariis, globoso-depressis vel conicis, subinde pluribus zona atrata cinctis, subastomis, vertice erumpentibus; sporulis oblongis, 10-13 ≈ 3,5; basidiis hamatis, 14 μ. longis.

Hab. in ramis Aceris Pseudoplatani, in Gallia. - Sper-

mogonium Diaporthes pustulatæ.

160. Phoma protracta Sacc. Mich. I. p. 259. — Peritheciis in acer-539 vulos elongatos, subparallelos digestis, erumpentibus, globulosis, papillatis, aterrimis; sporulis minutis, oblongis, $4 \approx 1^3/_4$, hyalinis; basidiis filiformibus, fasciculatis, hyalinis, $25 \approx 1^{7}/_2$, suffultis.

Hab. in ramis corticatis emortuis Aceris campestris, Padova in Italia bor. — Verisimiliter status spermogonicus Cucurbitariæ protractæ Fuck.

161. Phoma consors C. et E. in Grevillea cum icone. — Cæspitosa, 540 atra; peritheciis superficialibus, globosis; sporulis linearibus, truncatis, utrinque nucleatis, 14 μ. long.

Hab. in ramis decorticatis Aceris, New York in Amer. bor. (ELLIS). — Cæspituli e 3-4 peritheciis minutis atro-nitidulis compositi. — An Dothiorellæ species?

162. Phoma Lebiseyi Sacc. Mich. I. p. 257. - Peritheciis gregariis, 541

epidermide velatis, globoso-depressis, atris; sporulis ovato-fusoi-deis, 8-10 = 3, 2-guttatis, hyalinis; basidiis filiformibus, sesquilon-gioribus, fultis.

Hab. in ramis emortuis Aceris Negundinis, Conegliano in Italia bor., et in Gallia merid. (Roumeguère). — Spermogonium

Diaporthes Lebiseyi.

163. Phoma velata Mich. II. p. 96. — Peritheciis tectis, dein epi- 542 dermide lacerata semi-detectis, globulosis; contextu olivaceo-fusco; sporulis oblongis, $10-12 \approx 2^{1}/_{2}$, 2-guttulatis, hyalinis; basidiis filiformibus, $20 \approx 1 \frac{1}{2}$, suffultis.

Hab. in ramis corticatis Tiliæ europææ, Rouen in Gallia. — Spermogonium Diaporthes. — Forma minor: sporulis breve fusoideis, $7-7\frac{1}{2} \approx 1\frac{3}{4}-2$, biguttulatis, hyalinis; basidiis bacillaribus, brevibus, $10-14\approx 1$, suffultis. — In ramis Tiliæ, Saintes in Gallia.

164. Phoma Scheidweileri (West.) Sacc., Sphæropsis Scheidweileri 543 West. Not. V. p. 20. — Peritheciis tectis, membranaceis, atrobrunneis, dein nigris, globuloso-depressis, sparsis vel aggregatis, innatis, dein prominulo-erumpentibus; nucleo albido; ostiolo papillato, dein deciduo peritheciumque cupulatum relinquente; sporulis ovoideo-elongatis, hyalinis, dein protrusis, 24-30 ≈ 12-14.

Hab. in cortice Tiliæ, prope Gand in Belgio. — An Diplodiæ Scheidweileri, seu D. pustulosæ Lév. statum mere sistat im-

maturum, nondum liquet.

165. Phoma imperialis Sacc. et Roum. Mich. II. p. 330 (sub nomine $_{544}$ P. Paulownice). — Peritheciis gregariis, epidermide denigrata atque maculosa velatis, globoso-depressis: sporulis oblongis, $8 \approx 3$, biguttulatis, hyalinis.

Hab. in petiolis Paulowniæ imperialis, in horto Gar-

renne de Nerac in Gallia. — Spermogonium Diaporthes.

166. Phoma Paulowniæ Thum. Contr. Fung. Lit. n. 171, t. I. f. 33. 545
— Peritheciis sparsis, primo epidermide tectis, demum rimosoperforantibus in rimis longissimis, globosis, atris; sporulis minutis, enucleatis, cylindricis v. cylindrico-ovatis, utrinque rotundato-acutatis, hyalinis, 3,5-5 ≈ 1,5.

Hab. in ramulis aridis Paulowniæ tomentosæ, Gorizia in Italia boreali.

167. Phoma Rosmarini Speg. Mich. I. p. 481. — Peritheciis super- 546 ficialibus, ligno circumnigrificato decorticato adnatis, lenticulari-hemisphæricis, atris, rugulosis, 2-3, stromatice aggregatis, 200-250

 μ . diam., carbonaceis; sporulis ovoideo-fusoideis, inferne acutiusculis, antice obtusis, hyalinis, granuloso-farctis, minute 2-guttulatis, $6-10 \approx 2-3$.

Hab. in ramulis emortuis Rosmarini officinalis, Conegliano in Italia bor. — Spermogonium Diaporthes.

168. Phoma Lagerstræmiæ Speg. Mich. I. p. 482. — Peritheciis li-547 gno stromatice nigrificato immersis, $110-150~\mu$. diam.; ostiolo pertuso, papillato donatis; sporulis ovoideo-ellipticis, utrinque obtusiusculis, hyalinis, 2-guttulatis, $7-10 \approx 2-3$.

Hab. in ramulis emortuis Lagerstræmiæ indicæ, Cone-

gliano in Italia bor. — Spermogonium Diaporthes.

169. Phoma tamaricaria Sacc. Mich. II. p. 95 (sub nomine Ph. ta- 548 maricina). — Peritheciis velatis, globoso-depressis, gregariis, fusoideis, 9 ≈ 2, 2-guttulatis, hyalinis; basidiis uncinatis, 30 ≈ 1, suffultis.

Hab. in ramulis Tamaricis africanæ, S. Laurent in Gallia. -- Spermogonium Diaporthes.

170. Phoma africana Speg. Revue mycol. II. p. 161. — Peritheciis 549 lenticularibus, parvulis, 130-150, coriaceo-membranaceis, primo subepidermicis, dein epidermide secedente, liberis, atris; contextu pachydermatico fuligineo; sporulis ellipticis vel ovoideis, hyalinis, $4-7 \approx 3-5 \ \mu$.

Hab. ad ramulos emortuos Tamaricis africanæ, in ora maritima, S. Vincent, insula Africæ.

171. Phoma rimincola Sacc. Mich. I. p. 523. — Peritheciis subgre- 550 gariis, subliberis, globoso-conoideis, 110-120 u. diam., pertusis, nigris, intus albidis; sporulis cylindraceis, rectis, utrinque obtusis, $5 \approx 1$, hyalinis.

Hab. in ramis Tamaricis anglicæ cum Rosellinia rimin-

cola, in Gallia (Brunaud).

172. Phoma tamaricella Sacc. Mich. II. p. 92 (sub nomine Ph. Ta- 551 maricis). — Peritheciis corticolis, tectis, $^{1}/_{6}$ mill. d., globulosis, ostiolo erumpente papillato; sporulis breve cylindraceis, perexiguis, $4 \approx ^{3}/_{4}$, rectiusculis, hyalinis; basidiis subnullis.

Hab. in ramulis Tamaricis anglicæ, Rouen in Gallia (Letendre). — An satis diversa a Phoma tamaricina Thum.?

173. Phoma tamaricina Thüm. in Œsterr. bot. Zeitschr. 1877, p. 12. 552

— Peritheciis subglobosis, semiimmersis, erumpentibus, gregariis, minutis, atris; sporulis minimis, cylindraceis, rectis vel leniter curvatis, utrinque obtusatis, sine nucleo, vitreis, 5-6 ≈ 1-1,5.

Hab. in ramulis emortuis sed adhuc pendulis Tamaricis gallicæ, Krems in Austria (Thumen).

174. Phoma Tamarisci (Mont.) Sacc. Clisosporium Tamarisci Mont. 553 Cent. VII. p. 341-9. — Minuta tecta, dein nuda; peritheciis ½-½-1/10 mill. diam., membranaceis, sphæricis, atris, opacis, exsiccatione depresso-umbilicatis, specie ostiolatis, irregulariter dehiscentibus; sporulis globoso-suboblongis, 6,5 µ. longis, innumeris.

Hab. sub cuticula corticis Tamaricis gallicæ, prope Mon-

tand in Gallia australi (Castagne).

175. Phoma hapalocystis Sacc. Calosporce hapalocystis spermog. 554
Fuck. Symb. Myc. p. 191. — Peritheciis sub cortice demum fissa
cæspitosis, globosis, papillatis, nigris; sporulis minutissimis, cylindraceis, curvatis, 3 = 1.

Hab. in ramis emortuis Platani, in Rhenogovia.

176. Phoma scabra Sacc. Mich. II. p. 340. — Peritheciis dense gre- 555 gariis, globoso-depressis, subcutaneo-erumpentibus, olivaceo-farctis; sporulis breve fusoideis, acutiusculis, $7-8 \approx 2-2^{1}/_{2}$, biguttulatis, hyalinis; basidiis filiformibus, curvis, duplo longioribus, suffultis.

Hab. in ramis corticatis Platani, in Gallia (THERRY). — Sper-

mogonia Diaporthes.

177. Phoma notha Berk. Ann. N. H. n. 395. — Peritheciis spuriis, 556 subtus hic illic elevatis, indeque spurie plurilocellatis, subcircularibus; sporulis obovatis, deorsum acutioribus.

Hab. in ramis emortuis Platani, in Britannia. — Probabili-

ter Fusicocci species.

178. Phoma Radula B. et Br. Ann. N. H. n. 396. — Peritheciis te-557 nellis, late conicis, subcutaneo-erumpentibus, prominentibus, hinc matricem asperantibus, contextu tenui, laxe parenchymatico; sporulis minutis. oblongo-ellipsoideis, biguttulatis, rarius 3-guttatis, hyalinis.

Hab. in ramis emortuis Platani, in Britannia.

179. Phoma stictina Sacc. Coccularia stictica Berk. North Am. F. 558
n. 451. — Peritheciis punctiformibus, nigris, subinde confluentibus;
sporulis breviter ellipticis, 1-nucleatis, 7-8 ≈ 6.

Hab. in ramis corticatis Platani etc., in Carolina merid. —

Coccularia Corda est Coniosporio analoga.

180. Phoma sphærospora Sacc. Mich. II. p. 338. — Peritheciis gre- 559 gariis, erumpenti-superficialibus, globulosis, obtuse papillatis, densiusculis, nigris, ½ mill. diam.; sporulis globulosis, deorsum brevissime apiculatis, 9-14 ≈ 8-10, nucleo nucleolato fœtis, hyalinis.

Hab. in ramulis Ailanthi (?), Lyon in Gallia (Therry). — Phomee Hippoglossi affinis.

181. Phoma Ailanthi Sacc. — Peritheciis acervulatis, conoideis, atris, 560 innato-emergentibus; sporulis ovato-fusoideis, hyalinis, 2-guttulatis, 7 = 2,5; basidiis filiformi-arcuatis, 25 = 0,5.

Hab. in ramis Ailanthi glandulosæ, in Italia boreali. - Spermogonium Diaporthes Ailanthi Sacc. (Syll. I. 621).

182. Phoma ailanthina Thüm n. Sp. Symb. mycol. Austr. I. p. 5. -- 561 Peritheciis gregariis, epidermidem perforantibus, coacervatis, elevatis, liberis, atro-fuscis; sporulis globosis vel globoso-ellipticis, numerosissimis, simplicibus, enucleatis, 3-5 ≈ 2,5-3, hyalinis.

Hab. in ramulis emortuis Ailanthi glandulosæ, Klosterneuburg in Austria.

183. Phoma tertia (Cooke) Sacc. Sphæropsis tertia Cooke Grev. XII. 562 p. 22. — Sparsa vel subgregaria, punctiformis; peritheciis depressis, minimis, atris, cuticula tectis; sporulis elongato-ellipticis, utrinque obtusis, hyalinis, 18 = 3,5-4.

Hab. in ramis Ailanthi, in Carolina austr., regione Americæ borealis (RAVENEL).

184. Phoma longipes B. et C. North Am. Fungi n. 375. — Subcorti- ⁵⁶³ calis gregaria; sporulis minutis, breviter oblongis; basidiis sporula multoties longioribus.

Hab. in ramis corticatis Mori rubræ, in Carolina inferiore, regione Americæ borealis.

185. Phoma moricola Sacc. Mich. I. p. 525. — Peritheciis gregariis, 564 cortice nidulantibus, globoso-depressis, griseis, $\frac{1}{3}$ mill. diam; sporulis oblongis, curvulis, $8 \approx 2-2\frac{1}{2}$, 2-guttulatis, hyalinis (basidiis non visis).

Hab. in ramis corticatis Mori albæ, pr. Rouen in Gallia (Letendre). — A Ph. (Aposphæria) Mori Mont. diversissima.

186. Phoma Mororum Sacc. Boll. mens. di Bachicoltura, Padova 1884, 565 n. 4, p. 15. — Peritheciis gregariis, subcutaneis, vix erumpentibus, globoso-depressis, 190-200 μ . diam., vertice obtuso, pertusis, mycelio effuso, fuligineo-atro, hypodermico innatis; hyphis subramosis, tortuosis, septatis, 7-9 μ . crass.; sporulis oblongis, obtusiusculis, hyalinis, $6-7\approx2,5-3$, eguttulatis; basidiis nullis vel obsoletis.

Hab. in ramulis languidis sed nondum emortuis Mori albæ, in Italia boreali, vere 1884 copiosa et noxia.

187. Phoma Broussonetiæ Sacc. Mich. II. p. 94. — Peritheciis gre- 566

gariis, tectis, oblongis, griseo-nigris; sporulis fusoideis, 9 = 2, 2guttulatis, stipitellatis.

Hab. in ramis corticatis Broussonetiæ papyriferæ. Rouen in Gallia (Letendre). — Spermogonium Diaporthes.

188. Phoma cinerescens Sacc. Mich. I. p. 521. — Peritheciis gre. 567 gariis, globoso-depressis, atroolivaceis, subcutaneis; sporulis fusoideis, biguttulatis, $6-8 \approx 2-2.5$, hyalinis.

Hab. in ramis corticatis v. demum decorticatis Fici Caricæ, in Italia et Gallia. - Spermogonium Diaporthes cinerescentis Sacc. — An huc spectet Phoma Ficus Cast. in Kl. Herb. myc. n. 1870, ignotis diagnosi et speciminibus, dijudicare nequeo.

189. Phoma juglandina (Fuck.) Sacc. Mich. I. p. 521. — Peritheciis 568 globoso-depressis, tectis, atrogriseis, obtusis; sporulis breve fusoideis, 10-12 = 3-4, 2-guttatis, hyalinis; basidiis curvulis, filiformi-

bus, $25 \approx 1-1^{1}/...$

Hat. in ramis corticatis Juglandis regiæ, in Gallia, Ger-

mania et Italia. - Spermogonium Diaporthes.

190. Phoma guercella Sacc. et Roum. Mich. II. p. 339 (sub nom. Ph. 569) quercina). — Peritheciis laxe gregariis, subcutaneo-erumpentibus, globoso-depressis, breve papillatis, nigris, contextu minute parenchymatico; sporulis fusoideis, acutis, $8-9 \approx 2-2^{1}/4$, biguttulatis; basidiis e strato proligero flavicante oriundis, bacillaribus, quandoque furcatis, 20-25 ≈ 3, suffultis.

Hab. in ramulis tenellis quercinis, Francheville pr. Lyon

in Gallia (Therry). - Spermogonium Diaporthes.

191. Phoma dryina (B. et C.) Sacc. Sphæropsis dryina B. et C. North 570 Am. F. n. 411. — Peritheciis papillæformibus, epidermide cinctis; sporulis obovatis, hyalinis, $15 \approx 6-7$.

Hab. in ramis quercinis, in Pensylvania, regione America borealis (Michener). - Perithecia, ob epidermidem tegentem, cinerescunt.

192. Phoma endophiæa Sacc. F. Gall. Ser. V. n. 2176. — Perithe- 571 ciis in peridermio interiore immersis, subsparsis, globoso-depressis, 1/3 mill. diam., poro pertusis, atris; sporulis bacillaribus, curvulis, utrinque obtusis, 18 = 1,5-2, subhyalinis; basidiis filiformibus, 20- $25 \approx 1$, fasciculatis, suffultis.

Hab. in cortice interiore ramorum Quercus, Saintes in Gallia (Brunaud).

193. Phoma quercina (Peck) Sacc. Sphæropsis quercina Peck 25 572 Rep. p. 86. — Peritheciis convexis, levibus, erumpentibus, nigroSphærioideæ, Hyalosporæ, Phoma.

97

brunneis v. nigris, intus albis, epidermide albicante rupta cinctis; sporulis ellipsoideis, hyalinis, 8-9 μ . longis.

Hab. in ramis emortuis Quercus, Greenbush in Amer. bor.

194. Phoma putator Sacc. Mich. pag. 616. — Peritheciis subcutaneis, 573 globoso-depressis, gregariis, pertusis; sporulis oblongo-fusoideis, 9-10 ≈ 2,5, biguttatis, hyalinis; basidiis bacillaribus, 8 ≈ 1,5.

Hab. in ramis corticatis Populi, in Gallia, Germania et Ita-

lia. - Spermogonium Diaporthes.

195. Phoma Crepini Speg. et Roum. Mich. II. p. 338. — Peritheciis 574 erumpentibus, cœspitulosis, globoso-papillulatis, contextu parenchymatico, rufescente; sporulis oblongis, minutissimis, 4 ≈ 1, 2-guttulatis, hyalinis, sæpe curvulis.

Hab. in ramis Populi fastigiatæ, in Gallia et Germania.

- Spermogonium, ut videtur, Canangii populini.

196. Phoma populicola Karst. Hedw. 1884, p. 62. — Peritheciis per corticem erumpentibus, cæspitosis, subovoideis, atris, astomis, tandem poro pertusis, 300 μ . lat.; sporulis botuliformibus, hyalinis, 2-3 \approx 0.5.

Hab. in ramis emortuis Populi tremulæ, prope Aboan in Fennia. — «Peritheciis cæspitulosis, ad Dothiorellam vergit».

197. Phoma Salicis Sacc. Sphæriæ Salicis spermogon. Fuck. Symb. 576 p. 115. — Peritheciis tectis, sparsis, majusculis, atris, unilocularibus, obtusis, minute papillatis perforatisque; sporulis oblongoovatis, continuis, hyalinis, 3-guttatis, 8 = 4.

Hab. in ramis corticatis siccis Sacilis fragilis, in Rheno-

govia.

198. Phoma acervalis Sacc. Gibberellæ acervalis Spermog. Fuck. 577 Symb. p. 166. — Peritheciis cæspitosis, minutis, fuscis; sporulis minutissimis, cylindraceis, oscillantibus.

Hab. in ramis corticatis Salicis capreæ, in Rhenogovia.

199. Phoma salicina West. Crypt. Class. Append. (verisimiliter), Sacc. ₅₇₈ et Roum. Rel. Lib. V. n. 63. — Peritheciis gregariis, subcutaneis, globoso-depressis; sporulis oblongis, 6-7 ≈ 2-2,5, hyalinis; basidiis fasciculatis, æquilongis.

Hab. in ramis corticatis Salicis, in Gallia et Germania. — Spermogonium Diaporthes cujusdam. — Speciei Westendorpii dia-

gnosim reperire non potui.

200. Phoma palina (Fr.) Sacc. Sphæria palina Fr. S. M. II. p. 494. 579 Cfr. Syll. II, p. 422, Curr. Simpl. Sphær. p. 328. — Sparsa, erumpens, sublibera, conica, rugosa, nigricans, poro pertusa, truncata; sporulis fusoideis, hyalinis, binucleatis, 7-8 μ. long.; basidiis longis.

7

Hab. in ramis emortuis Salicis, in Suecia et Gallia.

201. Phoma endoleuca Sacc. Mich. I. p. 523. — Peritheciis cortice 580 omnino nidulantibus, globulosis, $\frac{1}{5}$ mill. diam., vix papillatis, nucleo albo farctis; sporulis botuliformibus, $6 \approx 1\frac{1}{2}-2$, leniter curvis, 2-guttulatis, hyalinis; basidiis subæquilongis, subsimplicibus, fultis.

Hab. in ramis Alni glutinosæ cum Fenestella. in Gallia. — *Ph. ligustrina Sacc. l. c. A typo differt peritheciis majoribus, $\frac{1}{4}$ mill. diam.; sporulis crassioribus, $6-7 \approx 2\frac{1}{2}$, basidiis subnullis fultis. In ramulis Ligustri vulgaris, in Gallia. — Ph. rhodophila Sacc. Mich. II. pag. 91. (Ph. Rosarum). Peritheciis tectis, dein erumpentibus, intus albidis, diu farctis; sporulis cylindraceis, $6\approx 2$, utrinque obtusiusculis, 2-3-guttulatis, hyalinis, basidiis, 6-10 long. suffultis. In ramulis Rosæ caninæ, in Gallia. Phoma Rosarum Mont. sporulis duplo longioribus instructa est.

202. Phoma mutica (B. et Br.) Sacc. Sphæropsis mutica B. et Br. 581 N. H. n. 422. — Peritheciis erumpentibus, globosis, obtusis, plus minusve cæspitosis, nigris, lucentibus; sporulis perexiguis, ellipsoideis v. obovatis, hyalinis.

Hab. in ramulis Alni glutinosæ, Batheaston in Britannia. — Habitus Diplodice.

203. Phoma Phillipsiana Sacc. et Roum. Reliq. Lib. Ser. V. n. 68. 582

— Peritheciis laxe gregariis, mox emergentibus, cortice innatis, globoso-depressis, atris, apice rotundatis, nigris, ½ mill. diam., subcoriaceis; sporulis globoso-ellipsoideis, 482-3 = 5, 1-nucleatis, hyalinis; basidiis.....

Hab. in cortice ramorum Alni, in Germania et Gallia.

204. Phoma alnea (Nits.) Sacc. Mich. II. p. 97. — Peritheciis gre- 583 gariis, subcutaneis, depressis, atro-griseis; sporulis $7-8 \approx 2^{\text{I}}/_2-3$; basidiis $20 \approx 1$, filiformi-arcuatis.

Hab. in ramis alneis, in Germania et Italia. — Spermogonium Diaporthes alneæ Fuck. (Sylloge I. 677).

205. Phoma corticicola Preuss Hoyersw. n. 27. — Peritheciis in 584 cortice insidentibus, erumpentibus, nigris, hemisphæricis, tenuissimis, cellulatis, punctiformibus; sporulis continuis, muco insidentibus, oblongis, albis; nucleo ovato.

Hab. in ramis Betulæ dejectis, Hoyerswerda.

206. Phoma oppilata (Fr.) Sacc. Sphæria oppilata Fr. S. M. II. p. 585 493. Curr. Simpl. Sphær. p. 328. — Peritheciis sparsis, erumpentibus, globosis, levibus, subastomis, nigris, ostiolo subrimoso; sporulis fusoideis, hyalinis, bi-nucleatis, 7-10 μ. longis.

Hab. in virgultis Betulæ, in Suecia. — Sec. Fr. in Curr. Suppl. Obs. p. 258 in statu typico est species ascigera.

207. **Phoma oblonga** Des. 22. Not. 6. — Peritheciis oblongis, mem- 586 branaceis, sparsim-approximatis, epidermide demum longitudinaliter fissa obtectis, poro pertusis; nucleo cinereo; cirris albis validis; sporulis rectis, ovato-oblongis, hyalinis, $6-7 \approx 3 \ \mu$.; guttulis 2, distincte globosis, semi-opacis.

Hab. ad ramos siccos Ulmi, in Gallia. — Spermogonium Diaporthes Eris videtur. — Ab hac specie forte non differt Phoma eres Sacc. Mich. I. p. 521. Syll. I. p. 631: peritheciis $\frac{1}{4}$ mill. diam.; sporulis-fusoideis, $10 \approx 3$, biguttatis; basidiis filiformibus, $15-18 \approx 2$. In ramis Ulmi campestris, in Gallia et Italia.

208. Phoma planiuscula Sacc. Ph. depressa B. et Br. Ann. N. H. n. 587 397 nec Lév. — Peritheciis spuriis supra valde depressis, stromate crassiusculo olivaceo exceptis pustulasque sparsas pertusas efficientibus; sporulis minutis oblongo-ellipsoideis, utrinque acutiusculis, biguttulatis, hyalinis.

Hab. in ramis Ulmi et Robiniæ Pseudacaciæ, in Britannia.

209. Phoma Malbranchei Sacc. Mich. I. p. 521. — Peritheciis corti- 588 ce nidulantibus, globosis, ½ mill. diam.; nucleo nigricante; ostiolo vix manifesto; sporulis, ovato-oblongis, 14-15 = 5, 2-guttulatis, hyalinis; basidiis subæquilongis, filiformibus.

Hab. in ramis corticatis Ulmi campestris, Saintes in Gallia (Brunaud). — Status spermogonicus Diap. Malbranchei Sacc. vel forte D. Saccardianæ J. Kunze.

210. Phoma sordida Sacc. Cfr. Syll. I. p. 632. — Peritheciis globo- $_{589}$ so-depressis, subcutaneo-erumpentibus, subgregariis; sporulis oblongo-fusoideis, $8-10\approx 2-25$, biguttulatis, hyalinis; basidiis hamatis, filiformibus, $27\approx 1$.

Hab. in ramis corticatis Carpini Betuli, in Germania et Italia. — Spermogonium Diaporthes sordidæ.

211. Phoma revellens Sacc. Cfr. Syll. I. p. 673. — Peritheciis glo-590 boso-depressis, subcutaneo-erumpentibus, gregariis; sporulis oblongis, biguttulatis, 6-7 ≈ 3, hyalinis, stipitellatis.

Hab. in ramis putrescentibus Coryli Avellanæ et C. Lambertianæ, in Germania et Italia. — Spermogonium Diaporthes revellentis.

212. Phoma corylina (Thüm.) Sacc. Sphæropsis corylina Thüm. in 591 Hedwigia. — Peritheciis dense gregariis sed semper solitariis et numquam confluentibus, primo epidermide tectis, demum perforantibus et prominulis, plano-hemisphæricis, opaco-nigris; basidiis fasciculatim dispositis, brevibus, tenuibus, flexuosis, hyalinis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, episporio subcrasso, hyalinis, $13-18 \approx 8-10$.

Hab. ad ramos aridos Coryli Avellanæ, in Gallia et Germania (Libert).

B) Foliicolæ.

213. Phoma parca (B. et Br.) Sacc. Sphæropsis parca B. et Br. 592 Ann. N. H. n. 420. — Peritheciis minutis, arescendo collapsis; sporulis oblongis, subcylindraceis, utrinque obtusis, sed una extremitate attenuatis, diametro transverso 4-5-plo longioribus.

Hab. in foliis Abietis excelsæ, in Britannia.

214. Phoma acicola (Lév.) Sacc. Mich. II. p. 272. Sphæropsis aci- 593 cola Lév. in Ann. Scienc. nat. Bot. (1848) p. 256. — Peritheciis erumpentibus, globosis, dein rugulosis, epidermide cinctis, intus albidis, majusculis; sporulis ovato-oblongis, 7 \u224, hyalinis.

Hab. in foliis deciduis Pini silvestris, in Gallia, Italia, Germania.

215. Phoma acuum C. et E. in Grevillea. — Sparsa; peritheciis mi- 594 nutis, atris, prominulis, primum tectis; sporulis linearibus, rectis vel curvulis, utrinque obtusis, hyalinis, 10μ . longis.

Hab. in foliis Pinorum, New Jersey in Amer. bor.

216. Phoma acuaria (Cooke) Sacc. Sphæropsis acuaria Cooke, Sphæ-595 ria? Lib. in Herb. — Erumpens, subglobosa, atra; ostiolo perforato; nucleo albo fluxili; sporulis cylindricis, utrinque obtusis, hyalinis, $15 \approx 4$.

Hab. in foliis Pinorum, in Rhenogovia.

217. Phoma erythrella Thüm. Symb. Myc. Austr. III. n. 61. — Pe- $_{596}$ ritheciis subgregariis, epiphyllis v. rarissime etiam hypophyllis, subconico-hemisphæricis, emersis, sanguinolentis, anguste rubrocinctis, majusculis; nucleo nigro, globoso; basidiis brevibus, hyalinis, subrectis; sporulis ellipsoideo-globosis v. ovoideis, homogeneis, dilute griseolis, continuis, $4 \approx 2$, 5.

Hab. in foliis Pini austriacæ emortuis adhuc pendulis copiose, in Austria (Gregorowicz). — «An Zythia»?.

218. Phoma pinicola (Zopf) Sacc. Pycnis pinicola Zopf Hedw. 1881. 597 p. 146. — Peritheciis oblongis, gregariis v. sparsis, vertice varie

fissis, pachydermaticis, erumpentibus; sporulis sessilibus, anguste obovato-ellipsoideis v. oblongis, 8-12 = 3-5, biguttatis, hyalinis.

Hab. in foliis semi virentibus Pini silvestris et P. Pinastri ex ramis vivis avulsis dejectisque, in Germania.

219. Phoma pinastrella Sacc. Ph. Pinastri Thüm. Beitr. Pilz. Pin. 598 austr. p. 34, nec Lév. — Peritheciis gregariis sed semper simplicibus et nunquam confluentibus, semigloboso-subconoideis, prominentibus vel semiemersis, aterrimis, cuticula disrumpente regulariter cinctis; sporulis ellipsoideis, rectis vel interdum leniter arcuatis, utrinque subattenuatis et anguste rotundatis, raro homogeneis, plerumque biguttulatis, guttulis irregularibus magnis, hyalinis, 4−5,5 ≈ 2-2,5 numerosissimis.

Hab. in foliis emortuis Pini Pinastri, P. silvestris et P. Cembræ, in Gallia, Austria et Sibiria.

220. Phoma Juniperi (Desm.) Sacc. Sphæropsis Juniperi Desm. 17 599-Not. pag. 4. — Amphigena sed sæpius hypophylla, tuberculosa, atra, in series erumpens; peritheciis 2-3 minutissimis, stromate nigro immersis; nucleo albo; sporulis subglobosis, hyalinis, 3-4 μ. diam.

Hab. in foliis emortuis Juniperi communis, in Gallia.

221. Phoma pithyophila (Corda) Sacc. Sphæronæma pithyophilum 600 Corda Sc. IV. 40. f. 116. — Peritheciis immersis, subconfluentibus, dein erumpentibus, atro-fuscis; nucleo luteo gelatinoso; sporulis oblongis, utrinque obtusis.

Hab. in foliis putridis Pini silvestris, prope Pragam in Bohemia.

222. Phoma Pini (Desm.) Sacc. Spheropsis Pini Desm. Ann. Sc. not. 601 1848, p. 347. — Epiphyila, seriata, nigra; peritheciis erumpentibus, dein superficialibus, minutissimis, globosis vel globoso-depressis, 50 2. diam.; globulo minuto albo; sporulis numerosis, 10 p. long., ovoideis, hyalinis.

Hab. in foliis deciduis Pini Abietis, in Gallia.

223. Phoma Piceæ (Fiedl.) Sacc. Sphæronæma Piceæ Fiedl. Bot. 602 Zeit. 1858, p. 82. — Peritheciis innatis, minutis, depresso-rotundis, rugulosis, atris, nitidis, subconfluentibus; nucleo albido, lutescente; sporulis oblongis, subpellucidis.

Hab. in foliorum pagina infer. A bietis, pr. Domitz in Germania. — Ph. pithyophilæ (Corda) peraffinis.

224. Phoma Strobi (B. et Br.) Sacc. Sphæropsis Strobi B. et Br. 603 Ann. N. H. n. 421. — Peritheciis minutis, collabascentibus; spo-

rulis lineari-oblongis, crassitudine sua 6-7-plo longioribus, utrinque obtusiusculis.

Hab. in foliis, Pini Strobi, in Britannia. — Affinis Phomæ parcæ, sed perithecia minus collapsa, sporulæque majores obtusiores.

225. Phoma geniculata (B. et Br.) Sacc. Sphæropsis geniculata B. 604 et Br. Ann. N. H. n. 421. — Peritheciis globosis; ostiolo conico prominulo; sporulis cylindraceis, curvis, utrinque rotundatis; basidiis angulo obtuso oblique affixis, subinde biguttulatis, diametro suo 4-5-plo longioribus.

Hab. in foliis Pini Strobi, in Britannia.

226. Phoma thujana Thum. Symb. myc. Austr. III. n. 62. — Peri- 605 theciis minutis, epiphyllis, interdum etiam amphigenis, gregariis, punctiformibus, conoideis, emersis, atris'; sporulis in basidiis achrois brevibus acrogenis, ovoideis, utrinque rotundatis, enucleatis, continuis, hyalinis, minutissimis, 3,5 ≈ 1,5-2.

Hab. ad folia emortua Thujæ orientalis, Pyrawarth in Austria inferiore.

227. Phoma Taxi (Berk.) Sacc. Spheropsis Taxi Berk. Outl. p. 316. 606 — Peritheciis gregariis, innatis, epidermide cinerascente velatis, nigris; ostiolo convexo, epidermidem tandem perforante; sporulis obovato-oblongis, stipitatis, hyalinis, 20-22 ≈ 8-9.

Hab. in foliis emortuis Taxi baccate, in Britannia, Gallia, Italia, Austria. — Probabiliter status immaturus Diplodice Taxi De Not.

228. Phoma hysterella Sace. Mich. II. p. 275 — Peritheciis subcu- 607 taneis, hinc inde paucis, lineari-aggregatis epidermideque rimose (hysteriiformiter) fissa cinctis, globulosis, papillulatis, nigris, ½ mill. diam.; sporulis obovatis, 10-11 = 7, basi leniter acutatis, pluriguttulatis, hyalinis, basidiis teretibus dimidio brevioribus suffultis.

Hab. in foliis emortuis Taxi baccatæ, in horto Patavir, socia Physalospora gregaria (Bizzozero).

229. Phoma Wistariæ Thüm. Contr. Mic. Litor. n. 172. Tab. I. f. 3. 608

— Peritheciis epiphyllis, prominulis, subinnatis, mediis, gregariis, subglobosis, ostiolatis, nigris, in macula exarida, flavescenti, irregulari, fusco-purpureo marginata; sporulis subclavatis vel ellipsoideis, utrinque rotundatis, binucleatis, hyalinis vel achrois 6-8 ≈ 3.

Hab. ad folia viva Wistariæ sinensis, Gorizia.

230. Phoma Hardenbergiæ Penz. et Sacc. F. Mortol. n. 19, Tav. IV. 609 fig. 7. — Peritheciis dense congregatis, minimis punctiformibus,

in foliorum macula arida insidentibus, tenuibus, brunneis, 150-170 μ . diam.; sporulis numerosissimis, ellipticis, utrinque acutiusculis, hyalinis, biguttulatis, 8-10 \approx 3,3-3,5; basidiis dense constipatis, simplicibus, hyalinis, $10-12 \approx 2-2,5$.

Hab. in foliis vivis Hardenbergiæ ovatæ, quæ enecat, Mortola in Italia boreali.

231. Phoma Roumeguerii Sacc. Mich. II. p. 89. — Peritheciis in par- 610 tibus foliorum exsiccatis gregariis, depresso-globosis, $^{1}/_{6}$ mill. d., contextu parenchymatico, ochraceo-fusco; sporulis oblongis, $7\approx 2$, 2-guttulatis, hyalinis, basidiis bacillaribus, $15-16\approx 2$, suffultis.

Hab. in foliis Caraganæ arborescentis nondum omnino emortuis, Perpignan in Gallia (Roumeguére). — Ad Phyllosticiam nutat.

232. Phoma petiolorum Desm. Ann. Sc. nat. 1847, p. 16. — Peri- 611 theciis sparsis, globosis v. ovoideis, nigris, epidermide tectis, papillatis, denique poro pertusis; nucleo albido; sporulis minutis ovoideo-oblongis, 2-guttulatis, 7-8 ≈ 3; basidiis filiformibus, 20-23 ≈ 1.

Hab. in petiolis Robiniæ Pseudacaciæ in Gallia et Britannia.

233. Phoma Psoraleæ Cooke in Grevillea. — Peritheciis atris, pun- 612 ctiformibus, in maculis angulatis congestis; sporulis minimis, $5 \approx 2$.

Hab. in foliis Psoraleæ, Aiken in Carolina, regione Amer. bor. — Sphærellæ cujusdam videtur spermogonium.

234. Phoma fusca Lév. Ann. Sc. Nat. 1846, p. 281. — Peritheciis 613 epiphyllis, confertis, globosis, fuscis, intus sordidis; ostiolis nullis; sporulis minutis, ovato-elongatis, continuis, pellucidis.

Hab. in foliis Leguminosæ exoticæ (herb. Mus. Par.).

235. Phoma maculans (Lév.) Sacc. Sphæropsis maculans Lév. Ann. 614 Sc. Nat. 1846, p. 297. — Peritheciis amphigenis, stipatis, globosis, adnatis, stromate nigro, limitato, maculæformi insidentibus; ostiolis depressis rugosis; sporulis ovato-oblongis, obtusis, hyalinis.

Hab. ad folia Leguminosæ (Cumming in herb. Mus. Par.)..

236. Phoma stigmea Dur. et Mont. Syll. n. 981, in Explor. Scient. 615 Alger. Botanique, I. p. 606. — Amphigena; peritheciis fusco-atris, globosis, iunatis, primum tectis, poro pertusis, tandem circumscisso-deciduis; basidiis brevissimis; sporulis oblongis, hyalinis.

Hab. in foliis Citri Aurantii, Bouzareah in Algeria.

237. Phoma eustaga Penz. et Sacc. F. Agrumic. II. Contr. p. 5. — 616 Peritheciis gregariis, hypodermicis, majusculis, 150-170 μ. diam., sphæroideis, contextu parenchymatico, nigerrimis, duris; ostiolo

prominente; sporulis breviter ellipticis, utrinque rotundatis, hyalinis, $10-13 \approx 6-8$, guttulam unicam, refrangentissimam, in centro foventibus; basidiis obsoletis.

Hab. in maculis pallescentibus foliorum languidorum Citri Limonum, in frigidario horti botanici Patavini.

238. Phoma rigida Penz. in Mich. II. p. 430. — Maculis nullis; pe-617 ritheciis hypophyllis, laxe gregariis, aterrimis, prorumpentibus, vix depressis, $100-140~\mu$. diam.; sporulis cylindraceis, bacillaribus. rectis, utrinque rotundatis, continuis, $10-11~\approx 2-2.5$, hyalinis, muco hyalino insidentibus; basidiis obsoletis vel nullis.

Hab. in foliis languidis vel delapsis Citri Limonum, socia Sphærella sicula et Septoria sicula, Carini in Sicilia (V. Beltrani).

239. Phoma Mantegazziana Penz. Mich. II. pag. 429. — Peritheciis 618 gregariis, hypophyllis, majusculis, 280-320 μ . diam., sphæroideodepressis, epidermide velatis, demum erumpentibus; ostiolo regulari, 15-18 μ . diam.; contextu parenchymatico; sporulis oblongis, utrinque rotundatis, hyalinis, protoplasmate granuloso farctis, 16-20 \approx 5-7; basidiis cylindricis vel subclavatis, continuis, simplicibus, $14-18 \approx 3-5$.

Hab. in foliis languidis Citri medicæ, S. Terenzo, Spezia in Ital. bor. ubi 1878 leg. P. Mantegazza.

240. Phoma familiaris Sacc. Phoma domestica Speg. Fung. Arg. 619. Pug. IV. n. 96 nec Sacc. — Peritheciis dense sparsis profundiuscule in parenchymate nidulantibus, epidermidem pustulatim elevato-laceratam efficientibus, minutis, 100-120 μ. diam., atris, subglobosis, ostiolo impresso pertusis; sporulis ellipticis, utrinque acutis ac uniguttulatis, 6-8 ≈ 3-4, hyalinis.

Hab. in foliis dejectis emortuis Hoyæ carnosæ domi cultæ, Buenos Aires in Argentina.

241. Phoma Bolleana Thüm. Contr. F. Litor. n. 168. Tab. I. fig. 18. 620

— Peritheciis dense gregariis, prominulis, mediis, globosis, atris, ostiolatis, epiphyllis, postremo etiam hypophyllis in maculis magnis, exaridis, irregularibus, demum dilaceratis, candidis, dilute fusco-marginatis; sporulis minutissimis, ovoideo-globosis, 1,5-2 ≈ 1-1,6, hyalinis.

Hab. ad folia viva Hoyæ carnosæ epidemice, Gorizia in calidariis. — «An Phyllosticia?».

242. Phoma fædata (Lév.) Sacc. Sphæropsis fædata Lév. Ann. Sc. 621
Nat. p. 63. — Sparsa vel gregaria; peritheciis globosis, glabris,

nigris, epidermide lacerata, nigro-maculata obtectis; ostiolis exsertis conicis pertusis; sporulis ellipsoideis, hyalinis.

Hab. in foliis Hoyæ Wallichianæ, in India orientali.

243. Phoma millepunctata Penz. et Sacc. F. Mortol. n. 20. Tav. IV, 622 fig. 8. — Peritheciis hypodermicis, minutissimis, gregiformibus, depressis; ostiolo amplo, haud papillato, $160-170~\mu$. diam.; sporulis majusculis, $13-16 \approx 6-7.5$, oblonge ellipticis, utrinque obtusis, hyalinis, eguttulatis; basidiis brevibus, simplicibus, hyalinis, dein evanidis, $6-8 \approx 3-4$.

Hab. in petiolis Araliæ pulchræ, Mortola in Ital. bor.

244. Phoma leucostigma (DC.) Sacc. Mich. I. p. 259. Ann. Sc. nat. 623 1846, p. 296 Sphceropsis leucostigma DC. Fl. fr. VI. p. 144. — Peritheciis sparsis, innatis, convexis, prominulis, levibus, nigris, ostiolis pertusis albis; sporulis oblongis, 10-12 \(\times 3-4\), 2-guttulatis, hyalinis, basidiis sursum attenuatis, subæquilongis suffultis.

Hab. in foliis dejectis Hederæ Helicis, Evonymi japonici, Buxi, Quercus, in Gallia, Italia, Germania.

245. Phoma Candollei (Berk. et Br.) Sacc. Sphæropsis Candollei 624 Berk. et Br. Kickx. I. 402. Sphæria Buxi DC. — Peritheciis gregariis, amphigenis, majusculis, innato-erumpentibus; sporulis oblongis, magnis, 35 \times 12, utrinque obtusiusculis, nubilosis, hyalinis, basidiis brevissimis, hyalinis suffultis.

Hab. in foliis dejectis Buxi sempervirentis, in Gallia, Belgio, Italia, Britannia et in Amer. bor. — Basidiis brevissimis, sporulis numquam medio contractis, a Diplodiæ pusionibus mox dignoscitur.

246. Phoma Mirbelii (Fr.) Sacc. Mich. II. p. 90. Sphæria Mirbelii 625 Fr. Linn. 1830, p. 548. Sphæropsis Mirbelii Lév. Ann. Scienc. nat. 1846, p. 296. — Peritheciis tectis, papuloso-prominulis, erumpentibus, initio subastomis, dein rimose ruptis, atro-fulvis; sporulis obovoideis, basi sub-apiculatis, 15-18 ≈ 8-9, nubilosis, hyalinis, basidiis brevissimis, papilliformibus suffultis.

Hab. in foliis exsiccatis Buxi sempervirentis, in Gallia et Italia. — Teste Fuckel, huc spectat Sphæria delitescens Wallr. et Phacidium Buxi Lasch.

247. Phoma delitescens (Wallr.) Sacc. Sphæria delitescens Wallr. 626 Fl. crypt. n. 3752. — Peritheciis exiguis, tenerrimis, subrotundis, primum hypophlæode-latitantibus dilute fuscescentibus, dein nigrescentibus, summam epidermidis pelliculam varie scissam elevantibus illamque translucentibus, demum vertice aperto hiantibus.

Hab. ad foliorum Buxi sempervirentis utramque faciem et ramos in Thuringia. — «An diversa a Ph. Mirbelii?».

248. Phoma phacidioides Sacc. Mich. II. p. 274. — Peritheciis am- 627 phigenis, plerumque vero hypophyllis, globoso-lenticularibus, ¹/₃ mill. diam., innatis, dein epidermide laciniatim fissa erumpentibus; sporulis ellipsoideis, inæquilateralibus, 10 ≈ 6, granulosis, hyalinis.

Hab. in foliis emortuis Buxi sempervirentis, in Italia boreali. — Præcipue sporulis tertia parte minoribus a Ph. Mirbelii distinguenda.

249. Phoma ilicella Sacc. et Penz. Mich. II. pag. 618. — Perithe-628 ciis hypophyllis, gregariis, epidermide velatis, globoso-depressis, ½ mill. diam., late pertusis, contextu parenchymatico ochraceo-fusco; sporulis oblongis, utrinque rotundatis, 2-4-guttulatis v. nubilosis, 20-26 \(\approx 6-7\), hyalinis; basidiis subnullis.

Hab. in foliis emortuis Ilicis Aquifolii, Le Sapey (Isère) in Gallia (Therry). — Perithecia subinde imperfecta et tunc ad Glososporium vergentia.

250. Phoma ilicicola (C. et E.) Sacc. Sphæropsis ilicicola C. et E. 629 in Grevillea, t. 96, f. 28. — Peritheciis gregariis, atris, nitidulis, erumpentibus, epidermide cinctis; sporulis ovoideis, hyalinis, 10-12 ≈ 6-7.

Hab. in foliis Ilicis, amphigena, New Jersey in America boreali (Ellis).

251. Phoma Ilicis Desm. Exs. n. 1290, Kickx Fl. I. p. 440. — Pe-680 ritheciis punctiformibus, velatis, nigris, globulosis, prominulis, poro pertusis; sporulis cylindraceis, utrinque rotundatis, 12-15 ≈ 3, hyalinis, utrinque sæpe 1-guttatis.

Hab. in foliis emortuis Ilicis Aquifolii in Gallia, Belgio, Italia. — *Ilicis opacæ: sporulis $18 \approx 2^{1}/_{2}$, in Carolina (RAVENEL). — *Magnoliæ: sporulis cylindraceis, utrinque rotundatis, $15-18 \approx 2^{1}/_{2}-3$, 2-guttulatis, hyalinis, basidiis brevissimis suffultis. In foliis languidis Magnoliæ grandifloræ, in Gallia. — *Evonymi japonici: sporulis, $12-14 \approx 2$, 2-guttatis, hyalinis. In foliis ejusdem, Treviso, Gorizia in Italia boreali.

252. Phoma phacidiella Sacc. Sphæropsis phacidioides C. et Ell. Gre-631 vill. t. 96, f. 29. — Peritheciis majusculis erumpentibus, subglobosis, atris, epidermide radiatim fissa cinctis; sporulis cylindraceis, obtusis, hyalinis, 30-35 ≈ 4.

Hab. in foliis Ilicis Aquifolii, New Jersey in America boreali — Phomæ cylindrosporæ affinis.

253. Phoma pumila (Mong.) Sacc. Sphæropsis pumila Mong. in Lév. 632 Ann. Sc. Nat. p. 256. — Peritheciis punctiformibus, epiphyllis, gregariis, globosis, basi applanatis, nigris, intus cinereis, epidermide rupta cinctis; ostiolis vix distinctis; sporulis elongatis sub-linearibus continuis, utrinque obtusis, minutis.

Hab. ad folia Ilicis Aquifolii, in Vogesis.

254. Phoma leucospila Pass. in Hedw. 1878, p. 172. — Peritheciis 633 minutis depressis, atris, in macula exigua albicante epiphyllis; sporulis parvulis, oblongo-ellipsoideis, biguttulatis, hyalinis.

Hab. ad folia mox decidua Sorbi hybridæ Hort. in Italia

boreali.

255. Phoma Sorbi (Lasch) Sacc. Septoria Sorbi Lasch sec. Cooke 634 Handb. n. 1330. — Epiphylla; peritheciis minutis, aggregatis, semi-innatis, subnigris; sporulis ellipticis, utrinque leniter acutis et fere amygdaliformibus.

Hab. in foliis Sorbi Aucupariæ, in Britannia.

256. Phoma Laurocerasi Lev. Ann. Sc. nat. 1846, p. 296. — Peri- 635 theciis amphigenis, sparsis, innatis, globosis, nigris, intus albis, epidermide cinctis; ostiolis nullis vel papillatis; sporulis ellipticis, obtusis, hyalinis, stipitatis.

Hab. ad folia Pruni Lauro-Cerasi, in Gallia.

257. Phoma epiphylla (Lév.) Sacc. Sphæropsis epiphylla Lév. Ann. 636 Sc. nat. 1846, p. 296. Sphæria Laurocerasi Desm. Exs. fasc. 24.

— Peritheciis globulosis, nigris, nitidis, sparsis; minutis, vix ¼ mill. diam., tectis, prominentibus, dein collabascentibus, poro latiusculo et inæquali pertusis; nucleo albo-griseo; sporulis cylindraceis, rectis. obtusis, 4-guttulatis, hyalinis («8-10 ≥ 2, biguttatis»).

Hab. in foliis Pruni Lauro-cerasi, P. lusitanicæ, Rhamni Alaterni, in Gallia et Italia.

258. Phoma prunicola Schw. Syn. Am. bor. n. 2169. — Entophylla; 637 epidermide cinerescente formante maculas latas irregulariter effusas in folio, demum rupta, perithecia in conspectum veniunt ovata, rotunda aut quadrato-difformia, nigro-fusca, ore rotundo primum pertusa, demum latius aperta, et forma oris irregulari; stromate interno manifesto grumoso-fuscescente.

Hab. rarius in foliis dejectis, Pruni virginianæ aut serotinæ, Bethlehem in America boreali.

259. Phoma piceata Sacc. Ph. picea B. et Br. Ann. N. H. p. 399, 638 nec Pers. — Peritheciis hypophyllis, spuriis, piceo-brunneis, con-

vexis, supra epidermidi connexis; sporulis hyalinis, oblongo-ellipsoideis, biguttulatis.

Hab. in pag. inf. foliorum Rosæ, in Britannia.

260. Phoma vixvisibilis Thum. in Flora 1878, p. 179. — Peritheciis 639 minutissimis, hypophyllis, dense gregariis, occultis, subglobosis, vix prominulis, atris; sporulis minutis, hyalinis, ellipsoideis, utrinque rotundatis, simplicibus, enucleatis; sterigmatibus minimis, 2,5 ≈ 1,5.

Hab. ad folia arida Quercus stellatæ, Aiken in Carolina austr. (H. W. RAVENEL).

261. **Phoma Quercus** (Lamb.) Sacc. *Sphæropsis Quercus* Lamb. Myc. 640 Belg. III. p. 60. — Peritheciis subcutaneis, innatis, nigro-griseis, vertice poro rotundo distincto pertusis, hinc inde aggregatis; sporulis ovoideis, hyalinis, eguttulatis.

Hab. in pag. sup. foliorum siccorum Quercus, prope Liege in Belgio.

262. Phoma Castagnei (Mont.) Sacc. Sphwropsis Castagnei Mont. 641 Syll. n. 961 et Cent. VI. n. 38, in Ann., 3, XI. p. 50. — Epi-raro hypophylla; peritheciis globosis, minutis, atris, nitidis, tectis, in macula marginali irregulari cinereo-lilacina fusco-limitata sparsis, prominulis; sporulis ovoideis, continuis.

Hab. in foliis Quercus Ilicis, Montaud-lez-Miramas (Castagne).

263. Phoma dendritica Thum. in Flora 1878, p. 179. — Peritheciis 642 epiphyllis, numerosissimis, dense gregariis; maculas magnas, fuscas, plus minusve orbiculatas, sepe confluentes, dendriticas, stramineo-marginatas formantibus hemisphæricis, prominulis, nitidis, fuscis; sporulis cylindraceis, rectis, simplicibus, enucleatis, utrinque sub-obtusatis, hyalinis. $4 \approx 1.5$.

Hab. ad folia viva languidave Quercus nigræ, Aiken in Carolina austr. (H. W. RAVENEL).

264. Phoma innumerabilis Thüm. Myc. univ. n. 1079. — Peritheciis 643 hypophyllis, numerosissimis, dense gregariis, maculas maximas, sæpe confluentes, griseo-fuscas formantibus, globosis, minutis, immersis, granulosis, fusco-atris; sporulis cylindricis, utrinque subrotundatis, plerumque enucleatis, hyalinis, 2-3 = 1,5.

Hab. in foliis emortuis Quercus stellate, Aiken in Carolina (RAVENEL).

265. Phoma nervisequa (Cooke) Sacc. Sphæropsis nervisequa Cooke 644

in Grevillea. — Peritheciis atris, hysteriiformibus, sparsis; sporulis ellipticis, hyalinis, $10-12 \approx 5$.

Hab. in nervis foliorum Quercus Catesbeyi, Aiken in Ca-

266. Phoma ocellata (Lev.) Sacc. Sphæropsis ocellata Lev. Ann. Sc. 645 Nat. 1846, p. 297. — Peritheciis hypophyllis, sparsis, innatis, epidermide tectis; ostiolis prominulis pertusis, albis; sporulis oblongo-linearibus, obtusis, hyalinis.

Hab. ad folia Quercuum et Mespili nitidæ, pr. Parisios.
 267. Phoma discosiæformis Cooke et Harkn. in Grevillea n. 64. — 646
 Epiphylla, subgregaria; peritheciis parvulis, superne nudis, convexo-applanatis, nitidis, atrofuscis; sporulis minutis, ovalibus, continuis, hyalinis, 5 ≈ 2,5.

Hab. in foliis Quercus aquifoliæ, in California.

268. Phoma tularostoma (Ehrenb.) Fr. S. M. II. p. 548. Næmaspora 647 tularostoma Ehr. F. Cham. n. 14, t. 18, f. 7. — Hypophylla; ostiolo tumido fusco, primo centro candido clauso, demum aperto, margine interno candido; sporulis candidis sine lege rejectis.

Hab. in foliis Myrtorum et Lardizabalarum, in Chili. — In statu maturo sicca epidermis, tamquam tympani membrana extensa, rumpitur locumque cedit foramini rotundo aut oblongo, quod extus fuscum, intus candidum; tumidum vero servat marginem; dissecto a vertice perithecio, apparent sporulæ, parietibus adglutinatæ, quas interdum tamquam in membranulam confluxas vidit Ehrenberg.

269. Phoma mucipara Penz. et Sacc. F. Mortol. n. 21. Tav. IV. fig. 648
9. — Peritheciis in foliorum superficie sparsis, subsuperficialibus, hemisphæricis, duris, carbonaceis, aterrimis; ostiolo manifestissimo, sed haud prominente; contextu parenchymatico; nucleo albo; sporulis cylindraceis, utrinque rotundatis, rectis vel paullulum curvatis, eguttulatis, plasmate granuloso, incolore farctis, muco hyalino ex basidiorum dissolutione orto obvolutis, $18-22 \approx 3,5-4,5$.

Hab. in foliis delapsis Eucalypti sp. Mortola in Ital. bor. 270. Phoma eucalyptidea Thum. Contr. Myc. Lus. n. 563. — Peritheciis hypophyllis, sparsis, conico-elevatis, primo tectis, demum prominulo-erumpentibus, nigris, minutis; sporulis ellipsoideis, utrinque rotundato-acutatis, hyalinis, binucleatis, 5-9 ≈ 3,5-5, basidiis brevibus, flexuosis, hyalinis fultis.

Hab. ad folia viva vel languescentia Eucalypti Globuli, Choupal pr. Coimbra in Lusitania (Moller).

271. Phoma Molleriana (Thüm.) Sacc. Sphæropsis Molleriana Thüm. 650 Contr. Myc. Lus. n. 323. — Peritheciis amphigenis, numerosissimis, magnis, dense gregariis, primo sub epidermide nidulantibus, demum poro centrali apertis, postremo liberis dispansisve, concavis, turgidis, nitidis, castaneo-atris; sporulis cylindricis, simplicibus, utrinque subobtuso-rotundatis, rectis, hyalinis, eguttulatis, 13-15 = 3.

Hab. ad folia arida prostrata Eucalypti Globuli, Pinhal de Valle de Canas pr. Coimbra in Lusitania (Мосьев), et in America boreali (Соокв).

272. Phoma Heteromeles Cooke et Harkn. in Grevillea n. 64. — Epi- 651 phylla; peritheciis subsparsis, semi-immersis, sursum nudis, conico-convexis, atris, nitidis; sporulis elongato-ellipticis, continuis, hyalinis, plerumque binucleatis, 10-12 = 3.

Hab. in foliis emortuis Heteromeles, in Carolina.

273. Phoma ustulata B. et C. North Am. Fungi n. 384. — Maculis 652 helvolis seu rufo-brunneis; peritheciis minutis, punctiformibus; sporulis utrinque attenuatis, breve fusoideis, 7-8 µ. longis.

Hab. in foliis Vitis æstivalis, in America boreali.

274. Phoma viticola (Cooke) Sacc. Sphæropsis viticola Cooke Grev. 653 XII. p. 22. — Foliicola gregaria; peritheciis subglobosis, demum centro depressis, fuscis; sporulis sublanceolatis, rectis, curvulisve, hyalinis, 22-24 \pm 5-6.5.

Hab. in foliis Vitis. in Carolina austr. (RAVENEL).

275. Phoma succedanea Passer. Erb. critt. Ital II. n. 1378. — Pe. 654 ritheciis epiphyllis, superficialibus, in maculis exaridis, fuscis, irregularibus, gregariis vel crebre sparsis, globulosis, atris; sporulis ellipticis, nucleolatis, hyalinis vel, acervatim visis, fumidulis, 5 ≈ 2,5.

Hab. in foliis languentibus Vitis viniferæ, in maculis Perronosporæ, Vigheffio prope l'arma (Passerini).

276. Phoma Negriana Thüm. Pilz. Weinst. p. 185. — Peritheciis mi-655 nutis, epiphyllis, dense gregariis, hemisphærico-prominulis, in areolis foliorum griseo-albicantibus, subtus fuscis, variis inordinate dispositis; sporulis cylindraceo-ellipsoideis, utrinque obtusulis, sæpe enucleatis, raro 2-guttatis, 5-1 ≈ 3-3,5, hyalinis.

Hab. in foliis adhuc vivis Vitis viniferæ, morbo dicto Gial-lume laborantihus, Casale Monferrato in Ital. bor. (F. Negri).

277. Phoma ampelogena Sacc. Coniothyrium ampelinum Cooke in $_{656}$ Grevillea. — Sparsa; peritheciis minutis, inconspicuis, brunneis, membranaceis, hemisphæricis; sporulis ovatis, hyalinis, $4 \approx 3$.

Hab. in fonis Vitis æstivalis, socia Peronospora viticola, Aiken in Carolina.

278. Phoma maculifera (B. et C.) Sacc. Phoma macularis B. et C. 657 N. Am. F. n. 389 nec Desm. — Maculis orbicularibus, brunneis, immarginatis; peritheciis irregularibus, centralibus; sporulis oblongis subcymbiformibus, 10 μ. longis.

Hab. in foliis Diplopappi, Alabama in Amer. boreali (Beaumont).

279. **Phoma macularis** Desm. 22 Not. p. 7. — Amphigena, maculæ 658 minutæ piceæ insidens; peritheciis sparsis, nigris, nitidis, $^{1}/_{5}$ mill. diam., rotundatis, convexis, utrinque prominentibus, intus brunneis, quandoque linea atra circumscriptis; ostiolo papillæformi; sporulis oblongis, $7.5 \approx 2.5$.

Hab. in foliis exsiccatis Hibisci syriaci, in Gallia.

280. Phoma leptidea (Fr. Curr.) Sacc. Sphæria leptidea Fr. S. M. 659 II. p. 522. Curr. Simpl. Sphær. p. 332. — Gregaria, velata, leviter convexa, collabascendo umbilicata, atra, pertusa; sporulis subcylindricis, rectis curvulisve, hyalinis, 5 μ . lengis (sec. Curr.), aut $8 \approx 2$ (sec. Fuck.).

Hab. in foliis dejectis Vaccinii Vitis idææ, in Suecia et Germania. Conf. Syll. I. p. 535.

281. Phoma? Andromedæ Schw. Syn. Am. bor. n. 2168. — Subtecta, 660 entophylla, epidermide circumcirca cinerescente; formatur macula indeterminatim effusa, in qua perithecia irregulariter sparsa aut aggregata sunt, difformia, nigra, ovato-applanata, multilocularia; epidermide demum rupta, ora peritheciorum irregularia prominent; magnitudine peritheciorum variante, vix unquam lineam et dimidiam excedit.

Hab. in foliis dejectis Andromedæ axillaris, Salem in Amer. bor. — Paginam aversam infestat.

282. Phoma glomerosa (Lév.) Sacc. Sphæropsis glomerosa Lév. Ann. 661 Sc. Nat. p. 63. — Erumpens, hypophylla; peritheciis cæspitosis, subglobosis, lævibus, nigris; ostiolis conicis, prominulis; sporulis perexiguis, continuis, ellipsoideis, hyalinis.

Hab. ad folia Ericinææ ignotæ, in Peruvia (Mathews).

283. Phoma Cinnamomi Sacc. Mich. II. p. 374. — Peritheciis sparsis, 662 epiphyllis, globoso-conoideis, $\frac{1}{5}$ mill. diam., nigris; sporulis ellipsoideo-oblongis, $6-7 \approx 2\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in foliis semi-exsiccatis Cinnamomi dulcis, in horto Patavino.

284. Phoma nobilis Thum. Contr. Myc. Lus. n. 562. — Peritheciis 663 epi-raro etiam hypophyllis, conico-prominentibus, minutis, sparsis. griseo-atris, longe din epidermide tectis, in foliorum vivorum partibus arescendo fusco-griseis, plerumque marginalibus; sporulis ovoideis, utrinque rotundatis, enucleatis, dilute fuscidulis, 15 = 6.

Hab. ad folia viva Lauri nobilis, Cerca de St. Bento prope Coimbra in Lusitania (Moller).

285. Phoma protuberans Lév. Ann. Sc. Nat. 1846, p. 281. — Peri- 664 theciis amphigenis, sparsis, innatis, globosis, prominentibus, intus cinereis, ostiolis conicis pertusis; sporulis ovato-oblongis, continuis, hyalinis.

Hab. ad folia decidua Lycii europæi, in horto Parisiensi. - E descriptione Leptothyrium protuberans Sacc. diversum vi-

286. Phoma? Calycanthi Schw. Syn. Am. bor. n. 2166. — Multilo-665 cularis-subrotunda, plana, confluens, fusca, epidermidi innata, tecta; ostiolis indistinctis, sparsis; rarissime aperta, satis magna, bilinearis; folia maculat.

Hab. frequens in foliis jam semi-emortuis Calycanthi, in America boreali.

287. Phoma crateriformis (Dur. et Mont.) Sacc. Mich. II. p. 90. Asco- 666 spora crateriformis Dur. et Mont. Fl. Alg. I. p. 590. - Peritheciis amphigenis, gregariis, innato-erumpentibus, atro-nitidis, apice poro amplo pertusis, tandem elabentibus foveolamque relinquentibus; sporulis cylindraceis, utrinque obtusiusculis, $15 \approx 2-21/4$, guttulatis, hyalinis.

Hab. in foliis Phillyrearum, in Algeria et in Gallia.

288. Phoma Oleæ (DC.) Sacc. Mich. II. p. 91. Sphæria Oleæ DC. Fl. 667 Fr. VI. p. 136. Hendersonia Olece Desm. Diplodia Olece De Not. - Peritheciis gregariis, amphigenis, globosis, innatis, atris, duris; ostiolo erumpente, conico, subinde longiusculo; sporulis oblongocylindraceis, subrectis, utrinque subrotundatis, $18-25 \approx 3,5-5, 3-4$ guttatis granulosisve, hyalinis; basidiis 18-30 = 3, bacillaribus, facile evanescentibus.

Hab. in foliis dejectis Olem europame, in Italia, Gallia, Dalmatia, Germania. — Forma Hederæ Curr. Simpl. Sphær. p. 332, Penz. F. Mortol. n. 22: sporulis $16.5-20 \approx 3-3.5$. In foliis Hederæ in Britannia et Italia.

289. Phoma syringella Fuck. Symb. mycol. p. 133 (sub nom. Ph. 668 Syringæ). — Peritheciis in macula fusca gregariis, hemisphæricis,

demum depressis, papillatis, *Pleosporæ herbarum* magnitudine, atris; sporulis ovato-oblongis, biguttulatis, minutis, hyalinis, 8 \times 2.

Hab. in foliis putrescentibus Syringæ vulgaris, in Germania, Austria et Italia boreali, socia Pleospora Syringæ Fuck.

290. Phoma petiolina Sacc. Mich. I. p. 523. — Peritheciis gregariis, $_{669}$ subcutaneis, globoso-depressis, $^{1}/_{8}$ mill. diam., pertusis; sporulis ellipsoideis v. subreniformibus, $8-11 \approx 3^{1}/_{2}$, 2-pluriguttulatis, hyalinis (basidiis non visis).

Hab. in petiolis putrescentibus Fraxini, Rouen in Gallia (Letendre). — A Ph. petiolorum Desm. sporulis majoribus differt.

291. Phoma subnervisequa Des. 22 Not. pag. 7. — Amphigena, ma- 670 culis indeterminatis, albidis vel helvolis; peritheciis majusculis, subnervisequis, rotundatis, ¹/₅-¹/₄ mill. diam., quandoque oblongis, ¹/₂ mill. long., convexis, prominentibus, nigris, subnitidis, intus griseo-ochroleucis, tandem circumscisso-deciduis; ostiolo papillæformi; sporulis ovoideo-oblongis, 10-15 μ. longis.

Hab. in foliis siccis Evonymi latifolii, in Gallia.

292. Phoma cylindrospora (Desm.) Sacc. Mich. I. p. 527. Sphero- 671 psis cylindrospora Desm. Ann. Sc. nat. 1849, p. 277. — Peritheciis punctiformibus, atris, denique collabentibus, atro-nitidulis, gregariis, globosis, epidermide tectis, pertusis; sporulis bacillaribus, utrinque obtusis, $20-25 \approx 2-3$, rectis v. curvulis, hyalinis; basidiis filiformibus, simplicibus v. furcatis, $15-16 \approx 1^{1}/2-2$, hyalinis.

Hab. in foliis petiolisque Hederæ, Vincæ, Quercus Ilicis,
Evonymi japonici, in Gallia, Belgio, Italia, Germania, Austria.
Forte hujus varietas est Ph. Evonymi Desm., cujus tamen dia-

gnosim invenire non potui.

293. Phoma Ralfsii (B. et Br.) Sacc. Sphæropsis Ralfsii B. et Br. 672 Ann. N. H. n. 419. — Peritheciis sparsis, punctiformibus, valde collabascentibus, hinc peziziformibus; sporulis, madore expulsis, perexiguis, oblongis.

Hab. in foliis Hederæ, Aberystwyth, in Britannia.

294. Phoma Visci Sacc. Mich. I. p. 125. — Peritheciis in maculis 673 foliorum arescendo flavicantibus aggregatis, epidermide velatis, dein erumpentibus, subglobosis, papillulatis, atris, $\frac{1}{4}$ - $\frac{1}{5}$ mill. diam., solidiusculis; sporulis oblongo-ovatis, rectis, $5 \approx 2^{\circ}/_{2}$, 2-guttulatis, hyalinis.

Hab. in folius Visci albi, ad Prater Vindobonæ (P. MAGNUS).

— A Phylloslictis peritheciis pachydermaticis recedit.

295. Phoma Tulipiferæ Schw. Syn. Am. bor. n. 2167. — Pustula 674

Sphærioideæ, Hyalosporæ, Phoma.

114

applanata, pluribus confluentibus, nigro-fuscis majusculis, satis elevatis; ostiolis indistincte formatis.

Hab. rarius in foliis Liriodendri in pagina inferiore sed ubi

adest copiosa, Bethlehem in America boreali.

296. Phoma petiolata (Cooke) Sacc. Sphæropsis petiolata Cooke Rav. 675 Fungi Amer. n. 147, et in Grev. — Sparsa, tecta; peritheciis subglobosis, prominulis, apice perforatis; sporulis ellipticis, hyalinis, $12-15 \approx 6.6$.

Hab. in petiolis Platani, in Carolina austr. (RAVENEL).

297. Phoma Calotropidis (Thüm.) Sacc. Sphæropsis Calotropidis 676
Thüm. in Grevillea. — Maculas magnas, epiphyllas, asteromoides, plus minusve orbiculatas, late effusas et sæpe confluentes, griseoolivaceas, fere subpulveraceas formans; peritheciis densissime gregariis, numerosis, minutis, punctiformi-conicis, atris; sporulis cylindrico-ellipsoideis, vertice acutatis, basi angustato-obtusatis, simplicibus, 20-30 ≈ 6, pallidissime cinerescentibus in sterigmatibus sublongis, tenuibus, rectis vel subarcuatis, 10-18 μ. longis.

Hab. ad folia languida Calotropidis proceræ, prope Ber-

ber in Nubia (Schweinfurth).

298. Phoma Elæagni Sacc. Mich. I. p. 54. — Peritheciis amphigenis. 677 innato-erumpentibus, globosis, 130 µ. diam., papillulatis, nigris; sporulis elliptico-cylindraceis, 8-11 = 3, minute 2-3-guttulatis, hyalinis, basidiis filiformibus, 20-25 = 1, curvulis suffultis.

Hab. in foliis dejectis Elmagni reflexi, in horto botanico

Patavino.

299. Phoma Trabutiana Sacc. in litt. ad cl. Trab. — Peritheciis am- 678 phigenis et sæpius hypophyllis, in areis arescendo dealbatis, laxe gregariis, globoso-depressis, ½/10-½/2 mill. d., poro pertusis, epidermide initio velatis; sporulis oblongis, utrinque obtusiusculis, rectis, 2-guttulatis, 7-9 ≈ 2,5-3, hyalinis; basidiis bacillaribus, fasciculatis, 15-20 ≈ 1,5, rarius a basi furcatis.

Hab. in foliis Carolineæ macrocarpæ, prope Alger (Tra-

BUT). - Spermogonium Diaporthes nondum cognitæ.

300. Phoma cincta B. et C. North Amer. Fungi n. 391. — Irregu- 679 laris, depressa, materie alba cincta; sporulis oblongis, angustis, 6-8 μ. long.

Hab. in foliis Ulmi americanæ, in Carolina inferiore.

301. Phoma discosioides Sacc. Mich. I. pag. 526. — Peritheciis 680 erumpenti-superficialibus, lenticularibus, pertusis, ½ mill. diam., atro-nitidulis, minute contextis; sporulis botuliformibus, minutis-

simis, $3 \approx 1/2$, basidiis acicularibus, apice subincrassatis, $10 \approx 1/2$, suffultis.

Hab. in pag. sepius superiore foliorum Fagi silvatice, Rouen in Gallia (Letendre).

302. Phoma cirratula Desm. Exs. n. 53, Ser. II., 20 Not. p. 12. — 681 Peritheciis majusculis, globosis, approximatis, nigris, innatis, convexis, demum collabascentibus; sporulis minutis, oblongis, rectis, biguttulatis, 7,5 ≈ 2,5, cirrose expulsis.

Hab. in foliis languidis Daphnes Laureolæ, in Gallia.

303. Phoma daphnea (Preuss) Sacc., Gerulajacta Daphnea Preuss 682 Hoyersw. n. 315. — Peritheciis membranaceis, hemisphæricis, atris; nucleo subalbo; basidiis longis, clavæformibus, albis; sporulis oblongis, subfuscis, interdum cum guttulis oleosis.

Hab. in foliis Daphnes, Hoyerswerda.

304. Phoma Bergii Speg. Fung. Arg. Pug. n. 100. — Peritheciis 683 sparsis, subepidermicis, 110-120 μ . d., lenticularibus, atris, membranaceis, coriaceis, ostiolo impresso pertusis; contextu parenchymatico, fuligineo; sporulis ellipticis vel subglobosis, utrinque obtusissime rotundatis, ac 1-guttulatis, hyalinis, $3-4 \approx 1 \frac{1}{2}-2$.

Hab. ad folia languida vel emortua Chuquiragæ erinaceæ,

prope el Rio Negro en Patagonia (C. Berg).

305. Phoma Aucubæ West. Exs. n. 1373. — Peritheciis exiguis, co-684 piosis, hinc inde sparsis, atro-nitidis, innato-erumpentibus, poro pertusis; nucleo albido; sporulis anguste ovatis, acutiusculis, 5 ≈ 2,5.

Hab. in foliis Aucubæ japonicæ, in Belgio. — Forma ra-

mulicola. In ramis ejusdem in Italia et Belgio.

306. Phoma Acmella Berk. in Fl. New Zeal. p. 193, t. CVI. f. 10. — 685 Epidermide brunneola tecta; peritheciis depressis; sporulis variis oblongis, utrinque leviter attenuatis, 7-10 ≈ 4.

Hab. in foliis Corynocarpi levigatæ, socia Sphæria

Acctabulo, Te Apiti in Nova Zelandia (Colenso).

307. Phoma atomispora Cooke Grev. XII. p. 22. — Peritheciis spar-686 sis, prominulis, atris, subglobosis, pertusis; sporulis minutissimis, profusis, hyalinis, ovoideo-ellipticis, 3 ≈ 1,5.

Hab. in petiolis nervisque Magnoliæ, in Carolina australi

(RAVENEL).

308. Phoma minima (B. et C.) Sacc. Spheropsis minima B. et C. 687 North Amer. F. n. 418. — Maculis pallide brunneis, subcircularibus; peritheciis minutis, tectis; sporulis breviter obovatis, 10 2. longis.

Hab. in foliis subvivis Aceris rubri, New England et North Greenbush in Amer. bor. (Sprague et Peck). — Observante Peckio: perithecia sunt epiphylla; sporulæ interdum subangulosæ, muco involutæ; maculæ foliorum sæpius sunt obscurius marginatæ. — «An Phyllosticta?».

309. Phoma Malpighiæ (Mont.) Sacc. Sphæropsis Malpighiæ Mont. 68. Cent. VI. n. 40, l. c. — Epiphylla; peritheciis gregariis, punctiformibus, globoso-depressis, fuscis, epidermide atrata tectis, in macula pallida prominentibus; sporulis pedicellatis oblongo-ellipticis, 15 = 5, hyalinis, continuis, guttulas binas oleinas foventibus.

Hab. in foliis Malpighiæ cujusdam, in horto Massiliensi in

Gallia (CASTAGNE).

310. Phoma circumscripta Cooke in Grevillea. — Maculis exaridis, 689 brunneo-cinctis; peritheciis atris, nitidis; sporulis ellipticis, hyalinis, $7 \approx 2.5$.

Hab. in foliis emortuis Bumeliæ, Darien Georgiæ in Amer. boreali (RAVENEL).

311. Phoma maculans (B. et C.) Sacc. Sphæropsis maculans B. et C. 690 North Amer. F. n. 417(bis). — Maculis candidis, rufo-marginatis; peritheciis punctiformibus; sporulis obovatis, brevibus, 12-13 \(\times 9-10\). Hab. in foliis Bumeliæ, Alabama in Amer. bor. (Peters).

312. Phoma ligustrina Thum. Contr. F. Lit. n. 314. — Peritheciis 691 epiphyllis v. amphigenis, pertusis, numerosis, dense gregariis, punctiformibus, conico-hemisphæricis, nitido-atris; sporulis minutis, cylindraceis, rectis, utrinque rotundatis, enucleatis, hyalinis, 2-3 = 1,5.

Hab. in foliis putridis Ligustri japonici, Gorizia. — «An Phyllosticta?».

313. Phoma helvola B. et C. North Amer. F. n. 386. — Maculis hel- 692 volis definite marginatis; peritheciis minutis; sporulis minimis, breviter oblongis, $2^{1}/_{2}-3$ μ . longis.

Hab. in foliis Anonaceæ cujusdam, Texas in Amer. bor. (C. Wright). — «An Phyllosticia?».

314. Phoma glæosporioides Sacc. Mich. II. p. 145. — Peritheciis in 693 partibus foliorum exsiccatis sparsis, hemisphæricis, 110 μ . diam., late pertusis; contextu laxe tenui-parenchymatico, fuligineo; sporulis breve fusoideis, inæquilateralibus, utrinque obtusiusculis, granulosis, hyalinis, $25 \approx 7$, basidiis teretibus, sporula dimidio brevioribus suffultis.

Hab. in pag. sup. foliorum coriaceorum Viburni, in Gallia austr. (Roumeguère).

315. Phoma glandulosa Cooke Rav. Fung. Amer. n. 142, Grev. t. 99, 694 f. 9. — Sparsa vel subgregaria; peritheciis epidermide nigrificata tectis; sporulis ellipticis, hyalinis, 8 u. longis.

Hab. in petiolis Ailanthi, Aiken in Carolina (RAVENEL).

316. Phoma Mahoniæ Thum. Contr. Mic. Litor, n. 161, t. I. f. 10, 695 - Peritheciis dense gregariis, epiphyllis, raro amphigenis, mediis. globosis, nigris in maculis irregularibus, griseo-fuscis, postremo albis, exsiccatis; sporulis minutissimis, cylindrico-ellipsoideis, utrinque obtuso-rotundatis, hyalinis, $3-4 \approx 1-1,5$.

Hab. ad folia viva Mahoniæ Aquifolii, Gorizia.

317. Phoma Mahoniana Sacc. Mich. II. p. 90. - Peritheciis in par- 696 tibus foliorum exsiccatis, laxe gregariis, globoso-depressis, 150 μ. diam.; contextu dense parenchymatico; sporulis oblongis, 8-10 = 2, hyalinis; basidiis bacillaribus, 10-12 u. long.

Hab. in foliis Mahoniæ Aquifolii, socia Phyllosticla. Toulouse in Gallia (Roumeguére). - Huc forte spectat Ph. Mahoniæ Lacaill. in Rev. Myc. II. p. 62 (nullibi descripta). A Ph. Mahoniæ

Thum. sporulis triplo majoribus differt.

318. Phoma cinerea Desm. 23 Not. p. 6. — Amphigena; maculis 697 brunneis, dein cinereis, irregularibus; peritheciis minutissimis, numerosis, innato-prominulis, sparso-approximatis, quandoque subnervisequis, intus sordidis; ostiolo punctiformi; sporulis oblongocylindricis, rectis vel subcurvulis, $6-7.5 \approx 1.5-2$.

Hab. in foliis languescentibus Rhamni cathartici, in Gallia. 319. Phoma myriocarpa Dur. et Mont. Syll. n. 982. - Amphigena; 698 peritheciis innatis, globosis, minimis, apice poro pertusis et in maculas polygonas atras confertim aggregatis; sporulis oblongis hya-

linis, utrinque 1-guttatis.

Hab. in foliis deciduis Rhamni-Alaterni, Alger (Durieu).

320. Phoma? phyllogeneta (Link) Sacc. Combodia phyllogeneta Link, 699 Fr. Summa Veg. Scand. p. 422. - Peritheciis carbonaceis, fere liberis, astomis; nucleo gelatinoso-floccoso; sporulis magnis oblongis, continuis.

Hab. in foliis in Tropicis (Beyrich).

321. Phoma lucida (B. et C.) Sacc. Sphæropsis lucida B. et C. Cub. 700 Fungi n. 565. - Peritheciis lucidis, gregariis, ad marginem macularum circinantibus; sporulis oblongis, utrinque leviter attenuatis, obtusiusculis, hyalinis, 12-13 µ. longis; basidiis æquilongis. Hab. in pag. superiore foliorum emortuorum, in Cuba.

322. Phoma erumpens (B. et C.) Sacc. Sphæropsis erumpens B. et C. 70r

Cub. Fung. n. 566. — Peritheciis paucis (6-10), in stromate parvo orbiculari congestis, rima dehiscentibus; sporulis oblongis, utrinque leviter attenuatis, obtusiusculis, hyalinis, $25 \approx 7$.

Hab. in pag. superiore foliorum putrescentium, in Cuba.

II. In Dicotyledoneis herbaceis.

A) Caulicolæ.

323. Phoma xanthina Sacc. Mich. I. p. 359. — Peritheciis gregariis, 702 epidermide tumidula velatis, globoso-depressis, $^{1}/_{5}$ - $^{1}/_{3}$ mill. diam.; ostiolo exiguo erumpente; contextu laxe parenchymatico, fuligineo; sporulis cylindraceis v. cylindraceo-oblongis, utrinque obtusis, curvulis, $15 \approx 4$ -6, 2-3-guttulatis, singulis subhyalinis, coacervatis luteolis; basidiis obsoletis.

Hab. in caule putrescente Delphinii, prope Alençon in Gallia (C. C. Giller).

324. Phoma lirellata Sacc. Phoma lirelliformis Sacc. Mich. II. p. 703 93, 337, nec Mich. I. p. 522. — Peritheciis gregariis, sepeque seriatis, valde compressis, vix papillatis, subcutaneo-erumpentibus; sporulis breve fusoideis, 8-10 \(\approx 2-2\frac{1}{2}\), hyalinis, basidiis longis, bacillaribus, suffultis.

Hab. in caulibus Pæoniæ, Matricariæ et Lythri, in Gallia.

325. Phoma thalictrina Sacc. et Malbr. Mich. II. p. 617. — Peri- 704 theciis gregariis, subcutaneis, globoso-oblongis; sporulis ovato-oblongis, 6-7 = 3-3,5, 2-guttatis, hyalinis.

Hab. in caule emortuo Thalictri aquilegifolii, Rouen in Gallia. — A Phoma exigua Desm. prorsus differre videtur. Sper-

mogonium Diaporthes.

326. Phoma demissa Sacc. Fungi Ven. Ser. V. p. 201. — Peritheciis 705 subcutaneis, e globoso-compressis, nigro-farctis; sporulis ovoideis, $6 \approx 2^{1}/_{2}$, 2-guttulatis, hyalinis; sterigmatibus filiformibus, hamatis, $20 \approx 1$.

Hab. in ramis Clematidis Vitalbæ, Selva in Italia bor., socia Diaporthe demissa Sacc., cujus est status spermogonicus.

327. Phoma Clematidis Sacc. Mich. II. pag. 616. — Peritheciis sub- 706 gregariis, punctiformibus, nigris, epidermide initio velatis; sporulis cylindraceo-oblongis, curvulis, 14 = 4.

Hab. in ramulis petiolisque Clematidis, Elbeuf près Rouen in Gallia.

328. Phoma vulgaris Sacc. Mich. I. p. 524. — Peritheciis gregariis, 707 globoso-lenticularibus, epidermide velatis, $100-120~\mu$. diam., poro pertusis; sporulis oblongo-reniformibus, $8-10\approx2^{1}/_{2}-3$, eguttulatis. hyalinis.

Hab. in caulibus Clematidis Vitalbæ, socia Pleospora vulgari, et Medicaginis sativæ, Saintes et Rouen in Gallia.

329. Phoma Dentariæ (West.) Sacc. Zythia Dentariæ West. Bull. 708. Acad. Belg. II. n. 7, Ascospora Dentariæ (West.) Fuck. Symb. p. 95. — Peritheciis innato-emergentibus, epidermideque secedente superficialibus, membranaceis, sphæroideis v. ovoideis, denique collabascentibus; nucleo albido; sporulis ovato-cylindraceis, utrinque obtusis, hyalinis, 10 = 2.

Hab. in caulibus siccis Dentariæ bulbiferæ, in Belgio et Germania. — Sec. Fuckel inessent asci 18 ≈ 14, sporidia cylindracea 8 ≈ 2 continentia. Sed cl. Oudemans in exemplaribus originalibus ascos nullos observavit.

330. Phoma Lingam (Tode) Desm. Ann. Sc. Nat. 1849, p. 281. Sphw-709 ria Lingam Tode Meckl. 2, fig. 116. — Gregaria; peritheciis difformibus convexis, mox depresso-concavis, rugosis, atris; ostiolo rudi decumbente; sporulis minutis, oblongis, 2-guttulatis, hyalinis, 5 μ. longis.

Hab. in caulibus Brassicæ oleraceæ aliarumque herbarum majorum, in Suecia, Germania, Gallia, Italia et Britannia. — Protea; mixta reperiuntur individua variæ ætatis et formæ. Perithecia juniora convexa, levia; mox collabentia, subplicata, difformia, angulata vel Hysterii instar elongata, labiata.

331. Phoma Brassicæ Thum. in Hedwigia. — Peritheciis majuscu- $_{710}$ lis, dense aggregatis, sæpe confluentibus, hemisphæricis, plicatis, ex obscuro fusco-nigris, superficialibus; sporulis numerosis, cylindraceis, rectis, utrinque rotundatis, continuis, enucleatis, hyalinis, $3-4 \approx 1.5-2$.

Hab. in caulibus putridis Brassicæ oleraceæ, in Gallia et Germania (Libert).

332. Phoma incrustans (Nits.) Sacc. Mich. I. pag. 521. — Macula 711 stromatica effusa nigricante; peritheciis globoso-depressis, tectis; sporulis ovato-oblongis, $8-9 \approx 2$, 2-guttatis; basidiis filiformibus, $20~\mu$. longis.

Hab. in caulibus Brassicæ oleraceæ, in Gallia et Germania. — Spermogonium Diaporthes.

333. Phoma Niesslii Sacc. Mich. II. pag. 618. — Peritheciis dense 712

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gregariis, subepidermicis, globoso-depressis, pertusis; sporulis oblongo-clavulatis, $6 \approx 3$, biguttulatis, hyalinis.

Hab. in caule Gentianæ luteæ, Le Sapey (Isère), socia Venturia Niesslii Sacc., cujus forte spermogonium (Therry).

334. Phoma Gentianæ J. Kuhn Hedw. n. 1, 1883. — Peritheciis in $_{713}$ matrice albo-maculata sitis, gregariis, initio tectis, dein erumpentibus, atro-hrunneis, globosis vel depressis, papillatis, 150-300 μ . diam.; nucleo albo; sporulis ovato-oblongis, 7-8 \approx 1,8-2,2, subinde curvulis, hyalinis.

Hab in caulibus, foliis calycibusque Gentianæ ciliatæ,

prope Fridrichroda in Thuringia.

335. Phoma anguina B. et C. F. N. Pac. Exp. n. 123. — Maculis 714 parvis nigris, hic illic confluentibus; peritheciis depressis; sporulis subellipticis.

Hab. in caule emortuo Alysicarpi bupleurifolii, in freto Behring. — Cl. Berkeley in notula MS. scripsit: probabiliter ex Hong-Kong, nam Alysicarpus ad Boream tam altam non pervenit.

336. Phoma punctulata Cooke in Rav. Fung. Amer. n. 19 et in Gre-715 villea. — Subgregaria; peritheciis epidermide nigrificata tectis, centro albo-punctatis; sporulis ellipticis, binucleatis, 12 μ. longis.

Hab. in caulibus Leguminosarum, Gainesville, Florida in America boreali.

337. Phoma anceps Sacc. Mich. II. p. 273, Phoma ambigua Sacc. 716 Mich. II. 91, nec Nits. — Peritheciis globoso-depressis, dein sub-umbilicatis, centro papillulatis, ⅓ mill. d., initio epidermide velatis; sporulis cylindraceis, leniter curvis, 12-15 ≈ 2, utrinque obtusiusculis, granuloso-2-guttulatis, hyalinis.

Hab. in caulibus emortuis Medicaginis sativæ, in Gallia (Malbranche). — Inter Phomam et Septoriam media. Ab affini

Ph. bacillari Sacc. differt peritheciis applanatis.

338. Phoma Phaseoli Desm. Descr. esp. nouv. Crypt. 1836, p. 13, Ph. 717 Desmazieri Dur. et Mont. f. Phaseoli. — Peritheciis suborbicularibus, convexis, ore rotundo pertusis; sporulis oblongis, hyalinis, biguttulatis, 10-12 μ. longis.

Hab. in caulibus Phaseolorum, Lille in Gallia et in Belgio. — Ab affini Ph. Spirææ differt peritheciis minoribus, densioribus magisque prominulis. — Forma Lepidii Sacc. Sporulis teretiusculis, utrinque rotundatis, 7 = 3, 2-guttatis, hyalinis, nonnumquam medio lenissime coarctatis. In caule Lepidii graminifolii, in Gallia.

339. Phoma minutella Sacc. et Penz. Mich. II. p. 618. — Peritheciis 718 gregariis, epidermide velatis fere punctiformibus, pertusis; sporulis allantoideis perexiguis, 4-5 ≈ 0,7-1, hyalinis, curvulis.

Hab. in caulibus Phaseolorum in cultis, Eure in Gallia, socia Hendersonia hortensi (MALBRANCHE).

340. Phoma anaxæa Speg. Mich. I. pag. 482. — Stromate ramulos 719 corticatos vel decorticatos late ambiente atque lignum atro-nitens efficiente; peritheciis ligno immersis, atris, 150-180 µ. diam.; sporulis minutissimis, hyalino-chlorinis, subellipticis, utrinque obtusiusculis, 2-3 ≈ 1-1½.

Hab. in ramulis emortuis Onobrychis sativæ in alveo Plavis (Anaxi), in Ital. bor. — Spermogonium Diaporthes.

341. Phoma hedysarella Sacc. Ph. Hedysari Thum. Pilz. Sibir. n. 720 784, nec Mont. — Peritheciis gregariis, primo tectis, demum liberatis, punctiformi-hemisphæricis, subelevatis, mediis, nigris; sporulis breve cylindricis, utrinque rotundato-truncatis, enucleatis, continuis, hyalinis, 5,5-6 ≈ 2.

Hab. in caulibus petiolisque emortuis Hedysari setigeri, prope Minussinsk in Sibiria asiatica. — A Phoma herbarum West., ut videtur, bene distincta.

342. Phoma Hosackiæ C. et Hark. F. Calif. in Grev. 1880, p. 6. — 721 Sparsa, punctiformis, subtecta, atra; sporulis cylindrico-ellipticis, utrinque rotundatis, hyalinis, 10-12 ≈ 3.

Hab. in caulibus Hosackiæ glabræ, in California, regione Americæ borealis.

343. Phoma Galegæ Thum. Contr. Myc. Lus. n. 570. — Peritheciis 722 gregariis, mediis, orbiculato-hemisphæricis, semiimmersis, subtectis, fuscis, nitidis; sporulis late ellipsoideis, utrinque angustato-subacutatis, grosse binucleatis, achrois, 6-7 \(\pi 3-3.5\).

Hab. in caulibus emortuis Galegæ officinalis, in horto botanico Coimbra in Lusitania (Moller).

344. Phoma Indigoferæ Sacc. Mich. II. p. 380. — Peritheciis subcutaneis, ovato-globulosis, $\frac{1}{5}$ mill. d., pertusis, nigris; sporulis ovato-oblongis, $8 \approx 3-4$, 2-guttulatis, hyalinis; basidiis filiformibus, $20 \approx 1\frac{1}{6}$.

Hab. in caule leguminibusque Indigoferæ cultæ, Rouen in Gallia (Letendre). — Spermogonium Diaporthes.

345. Phoma Gossypii Sacc. Mich. II. p. 144. — Peritheciis epider-724 mide velatis erumpentibusque, globoso-depressis, intus griseis;

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sporulis breve fusoideis, $8 \approx 2$, 2-guttulatis, hyalinis, basidiis prælongis, bacillaribus, $30 \approx 1^{1}/_{2}$, basi crassioribus, suffultis.

Hab. in caule Gossypii, socia Septoria arcuata, in Caro-

lina austr. (RAVENEL). - Spermogonium Diaporthes.

346. Phoma Dilleniana Rabenh. Hedw. 66, pag. 192, Phomæ exi- 725 guæ Desm. proxima, differt sporulis majoribus, 6-9 = 3,5, oblongis, sæpius cylindricis, haud raro curvulis

Hat. ad caules siccos Anodæ Dillenianæ, in hortis prope

Dömitz in Germania (Dr. Fiedler).

347. Phoma ochra Cooke in Rav. Fung. Amer. n. 18, et Hedwigia 726 1878, p. 37. — Peritheciis gregariis tectis, parvulis, globosis, maculas effusas efformantibus; sporulis ellipsoideis, 10-12 = 3,5-4, binucleatis.

Hab. in caulibus Hibisci esculenti, Aicken in Carolina (RAVENEL).

348. **Phoma Lavateræ** West. Not. VI. p. 22. — Peritheciis perexi- 727 guis, sparsis, nigris, immersis, ostíolo papillato, epidermidem elevantibus et perforantibus; sporulis ovoideis vel oblongis, hyalinis, $10 \approx 2.5$.

Hab. in caule ramisque Lavateræ trilobæ, in hortis Tarmonde in Belgio.

349. Phoma labilis Sacc. Mich. II. p. 341, Phoma Malvacearum Sacc. 728 Mich. I. p. 258, nec West. — Peritheciis initio epidermide velatis, dein, ea secedente, superficialibus, globulosis, tandem collabascendo umbilicatis, $\frac{1}{6}$ - $\frac{1}{8}$ mill. diam.. nigris; sporulis oblongis, sæpe leniter curvis, $5-6 \approx 2-2^{1}/_{9}$, 2-guttulatis, hyalinis.

Hab. in caulibus putridis Althææ roseæ, Padova.

350. Phoma Malvacearum West. Exs. n. 1232. — Peritheciis sub- 729 cutaneis, globoso-oblongis, nigricantibus, epidermide subinde atrata tectis; nucleo fusco; sporulis fusoideis, obtusiusculis, 7-10 ≈ 2,5-3, 2-guttulatis; basidiis bacillaribus, sesquilongioribus.

Hab. in caulibus Althææ roseæ et officinalis, Malvæ silvestris, Hibisci esculenti, in Gallia, Belgio, Lusitania, Italia et Sibiria.

351. Phoma immersa Sacc. — Peritheciis perexiguis, globoso-depres- 730 sis vel conico-deplanatis, vertice tandem pertusis; sporulis fusoideis, rectiusculis, sæpe 2-guttatis, 6-7 ≈ 2-2,5, hyalinis.

Hab. in caulibus Lappæ, in Germania et Italia. — Spermogonium Diaparthes immersæ (Fuck.) Nits.

352. Phoma Arctii (Lasch) Sacc. Mich. II. pag. 340. - Peritheciis 731

gregariis, subcutaneis, depressis, atro-olivaceis; sporulis oblongo-ellipsoideis, $7 \approx 3-3^{1}/_{2}$, biguttulatis, hyalinis, basidiis filiformi-arcuatis, $25 \approx 1^{1}/_{2}$, suffultis.

Hab. in caulibus putrescentibus Lappæ majoris, in Gallia.
— Spermogonium prob. Diaporthis Arctii (Lasch) Nits. (Syll. I. pag. 653).

353. Phoma decolorans (Lev.) Sacc. Sphæropsis decolorans Lev. 732 Ann. Sc. Nat. p. 255. — Peritheciis minutis, gregariis, seriatis, ovatis intus extusque nigris, macula albida insidentibus; ostiolis erumpentibus, papillatis, dein pertusis; sporulis ovato-elongatis, utrinque obtusis, pellucidis, 2-3-guttulatis.

Hab. ad caules Lappæ minoris, in Gallia merid. (Castagne). 354. Phoma inulina Sacc. Mich. II. p. 91. — Peritheciis sparsis, len-783 ticularibus, tectis, $60-100~\mu$. diam., pertusis; sporulis oblongis, $6-7\approx 2^{1}/_{2}$. 2-guttatis, quandoque medio subconstrictis, hyalinis, basidiis filiformibus, flexuosis, $20\approx 2$, suffultis.

Hab. in caulibus Inulæ viscosæ, in Gallia merid. (Rov-meguère).

355. Phoma albicans Rob. et Desm. 17 Not. p. 11. — Peritheciis 734 minutis, copiosis, inordinatis, intus sordidis, epidermide tectis, humidis, globosis, prominulis, $\frac{1}{6}$ - $\frac{1}{5}$ mill. diam.; ostiolis minutis, papillatis; sporulis oblongo-cylindraceis, 10 μ . longis, hyalinis.

Hab. in caulibus pedunculisque, superficie dealbatis, Cicho-riacearum, in Gallia, Italia et Belgio. — Spermogonium Pleospora albicantis.

356. Phoma Artemisiæ Kalch. et Cooke in Grev. IX. p. 18. — Spar-735 sa, tecta, hysteriiformis, atra; peritheciis applanatis; sporulis subfusiformibus, hyalinis, binacleatis, 15-18 = 4; basidiis tenuibus, elongatis, superne curvulis.

Hab, in caulibus Artemisiæ, in Africa australi.

357. Phoma fuscata (Bonord.) Sacc. Clisosporium fuscum Bonord. 736 Abhandl. p. 139. — Peritheciis parvis, lentiformibus, membranaceis, fuscis, subepidermicis; mycelio ramoso, septato-articulato; sporulis albis, ovatis.

Hab. in caulibus Dahliæ, in Germania. — An affinis Ph. fu-scæ Preuss?

358. Phoma perexigua Sacc. F. V. N. Ser. IV. 10, sub n. 23. — Pe- 737 ritheciis subcutaneis, atris, globoso-depressis, gregariis; sporulis fusoideis, curvulis, deorsum attenuatis, 6-8 = 3, crasse 2-guttatis, hyalinis; basidiis filiformibus 25-32 = 1, apice uncinatis.

Hab. in caule Carlinæ vulgaris, in Italia boreali, socia Diaporthe perexigua Sacc., cujus est status spermogonicus.

359. Phoma Achilleæ Sacc. Mich. II. p. 616. — Peritheciis laxe gre-738 gariis, epidermide initio velatis, globoso-oblongis, obtusis, atris; sporulis elliptico-fusoideis, $9-10 \approx 2.5-3.5$, biguttatis, hyalinis; basidiis hamatis, $26 \approx 1$.

Hab. in caulibus emortuis Achilleæ Millefolii, in Gallia et Italia. — Verisimiliter spermogonium Diaporthes orthoceratis f. Achilleæ.

360. Phoma Cichoriacearum Sacc. Mich. II. p. 616. — Peritheciis 739 gregariis, epidermide velatis, prominulis, globoso-suboblongis, obtusis, atris; sporulis fusoideo-oblongis, 10 ≈ 3,5, 2-guttulatis, hyalinis.

Hab. in caulibus emortuis Crepidis, Rouen in Gallia (MAL-

BRANCHE). - Spermogonium Diaporthes.

361. Phoma Lactucæ Sacc. Mich. I. p. 94. — Peritheciis gregariis 740 tectis erumpentibusque, globuloso-oblongis; sporulis $10-12 \approx 2^1/2-3$, 2-guttulatis, basidiis curvis, $20-25 \approx 1$, fultis.

Hab. in caulibus emortuis Lactucæ sativæ, Rouen in Gal-

lia (Letendre). - Spermogonium Diaporthes.

362. Phoma linearis Sacc. Mich. II. p. 340. — Peritheciis globoso-741 depressis, seriatis, innato-erumpentibus, nigricantibus; sporulis fusoideis, $10-12 \approx 2$, 2-guttulatis, hyalinis, basidiis bacillaribus, $20 \approx 1^{1}/_{2}$, suffultis.

Hab. in caulibus Solidaginis Virgaureæ, in Gallia me-

ridionali. - Spermogonium Diaporthes.

363. Phoma lusitanica Thum. Contr. Myc. Lus. n. 335. — Perithe 742 ciis numerosissimis, dense gregariis, punctiformibus, hemisphærico-elevatis, nitido-atris, primo cuticula tectis, postremo poro centrali apertis liberisve; sporulis ellipsoideis, numerosis, utrinque subrotundatis, uni- vel plerumque non nucleatis, achrois, 4 ≥ 2.

Hab. in caulibus aridis Centaureæ sempervirentis,

Baleia prope Coimbra in Lusitania (MOLLER).

364. Phoma endorhodia Sacc. Mich. II. p. 275. — Peritheciis gre- 743 gariis innatis, globulosis, $^{1}/_{4}$ mill. diam., intus roseo-farctis; ostiolo conoideo epidermidem perforante, obtuso; perithecii contextu distincte parenchymatico, ochraceo-fuligineo; sporulis tereti-oblongis, utrinque rotundatis, $8-9 \approx 1^{1}/_{2}-2$, 2-guttulatis, hyalinis.

Hab. in caulibus emortuis Centaureæ Scabiosæ, in col-

libus Vittorio in Italia bor.

365. Phoma subconfluens Mont. et Dur. Fl. Alg. I. pag. 601, Syll. 744

n. 976. - Peritheciis membranaceis, confertis confluentibusque, epidermide tandem secedente tectis, atris, opacis, poro apicali pertusis, intus corneis; sporulis oblongis.

Hab. super tuberculis Centaureæ sphærocephalæ vul-

nere insectorum in caule procreatis, Alger (Durieu).

366. Phoma Anethi (Pers.) Sacc. Mich. II. p. 336, Spharia Anethi 745 Pers. Syn. p. 30, Dothidea Anethi Fr. Summa Veg. Scand. p. 387. - Elongata, interrupta, rugosa, nigrescens; peritheciis cohærentibus, subnudis, papillatis, intus albofarctis; sporulis minutis, ovato-cylindraceis, 4 \(\mu\). longis (sec. Fuck.).

Hab. in caulibus Anethi graveolentis, in Germania, Gallia, Suecia, Lusitania et Belgio. - Jam in caulibus semivivis observatur, subcinerea, mollior, astoma, Dothideam referens. Perithecia polyserialia, prominula, epidermide tenui solum tecta, in strias 2-4 lin. longas, 1-2 latas inæquales aggregata. — Sec. Fuck. Symb. p. 396 cum iisdem sporulis modo descriptis adsunt sporulæ majores, oblongæ, 30 = 6, oblique 1-septatæ, hyalinæ. - Var. Apii-Petroselini Desm. Typo paulo minor. In Gallia et Belgio.

367. Phoma Preussii Sacc. Phoma myelocola Preuss F. Hoyersw. 746 n. 29. - Peritheciis globosis, minutissimis, confertis, papillatis, nigris, in myelostromate (?) elongato conceptis; nucleo albo, muco-

so; sporulis ovatis oblongisve, continuis, albis.

Hab. ad caules Anethi graveolentis, Hoyerswerda.

368. Phoma feniculina Sacc. Mich. II. p. 95. — Peritheciis grega. 747 riis, initio tectis, globoso-oblongis; sporulis fusoideis, $8 \approx 3$, 2-guttulatis, basidiis uncinatis, 20 = 1, suffultis.

Hab. in caulibus Ferniculi arvensis, Saintes in Gallia (Brunaud), et Angelicæ, Malmedy (Libert). - Spermogonium

Diaporthes.

369. Phoma longissima (Pers.) West. Not. III. p. 13 (1854), Berk. 748 Outt. p. 314 (1860), Sphæria longissima Pers. Syn. p. 31. -Tecta, nigra; peritheciis minutis, in series longissimas parallelas confluentibus; ostiolis obsoletis; sporulis ovoideis, $4-6 \approx 1.5-2$, biguttulatis, hyalinis.

Hab. in caulibus Umbelliferarum, Atriplicis, Chenopodii, Bliti, in Gallia, Britannia. Suecia, Italia, Germania, Belgio, Sibiria et America. - Striæ lineares, ab uno caulis nodo ad alterum porrectæ, vix lineam latæ, passim confluentes, epidermide mox nigrescente tectæ. Perithecia stromate tenuissimo insidentia, demum subprominula.

370. **Phoma obtusa** Fuck. Symb. p. 378. — Peritheciis seminis Pa. 749 paveris magnitudine, sparsis, primo tectis, dein liberis, compressis, vertice applanatis et subtilissime papillatis; sporulis oblongis, utrinque obtusis, 1-2-guttulatis, simplicibus, $12 \approx 4$, hyalinis.

Hab. in caulibus Dauci Carotæ, rarius, in Rhenogovia.

371. Phoma Eryngii Sacc. et Roum. Reliq. Lib. IV. n. 78. — Peri- 750 theciis epidermide immutata velatis, globosis, obtuse papillatis; ostiolo vix emergente, ½ mill. diam.; sporulis cylindraceis, utrinque rotundatis, medio leniter coarctatis, 12-13 = 3, hyalinis.

Hab. in caule Eryngii, in Gallia et Germania.

372. Phoma complanata (Tode) Desm. Exs. Mich. II. p. 337, Sphæria 751 complanata Tode Meck. II. p. 21. — Peritheciis erumpenti-superficialibus, majusculis, ½ mill. diam., mox compresso-umbilicatis; ostiolo papillato; contextu parenchymatico, atrofuligineo, solidiusculo; sporulis oblongis, curvulis, 5-6 \(\approx 2-21/4\), biguttulatis, hyalinis.

Hab. in caulibus emortuis Heraclei, Rhinanthi, Angelice etc., in Suecia, Gallia, Germania, Italia et in Amer. bor.

373. Phoma caulographa Dur. et Mont. Fl. Alg. et Mont. Syll. n. 978. 752 — Peritheciis oblongis, lineari-confluentibus, linea atra, caulem penetrante circumscriptis; basidiis elongatis sporulas oblongas fulcientibus.

Hab. in caulibus exsiccatis semicorruptis Smyrnii Olusatri, ad Bouzareah (Durieu); in Cherophyllo temulento, ad Sedanum in Gallia (Montagne).

374. Phoma Asteriscus Berk. Ann. N. H. n. 394. — Peritheciis con- 753 vexis, brunneo-piceis, punctiformibus, margine pallidioribus; nucleis sporularum strato celluloso obscuriore tectis; sporulis oblongo-ellipsoideis vel elongatis.

Hab. in caulibus emortuis Heraclei, in Britannia.

375. Phoma decipiens Mont. Fl. Chil. VII. p. 488. — Oblonga, atra, 754 elevata, marginata; peritheciis immersis, globosis, membranaceis, pallidis, poro perforatis; sporulis oblongis, guttulis polaribus, confluentibus, septum transversum mentientibus.

Hab. ad caulem Umbelliferæ, Monte la Leone in Chile. (Bertero).

376. **Phoma projecta** Cooke in Grevillea. — Peritheciis gregariis 755 erumpentibus, globosis, nigris, ostiolis prominulis epidermidem nigrificatam perforantibus; sporulis anguste ellipsoideis, 1-3-nucleatis, 15 α. longis.

Hab. in caulibus Umbelliferarum, in Britannia.

377. Phoma eupyrena Sacc. Mich. I. p. 526. — Peritheciis subgre-756 gariis, depresso-conicis, $^1/_4$ mill. diam., innato-erumpentibus, pertusis; contextu fuligineo, conspicue parenchymatico; sporulis ovoideis, $4 \approx 11/_2$, hyalinis (basidiis non visis).

Hab. in caulibus Solani tuberosi, in Gallia (Brunaud). -

Status Pleosporæ cujusdam.

378. Phoma dulcamarina Sacc. Phoma Dulcamarce Thüm. Contr. 757 Myc. Lus. n. 569, nec Nits. — Peritheciis gregariis, parvulis, interdum confluentibus, punctiformibus, fere emersis, nigris; sporulis minutis, ellipticis, utrinque subrotundatis, sepe uni-nucleatis, achrois, 3 \u22222.

Hab. ad ramulos denudatos emortuosve Solani Dulcamaræ,

Choupal prope Coimbra in Lusitania (Moller).

379. Phoma pampeana Speg. Fung. Arg. Pug. IV. n. 278. — Peri- 758 theciis lenticulari-hemisphæricis, 180-200 p. diam., densiuscule sparsis, prominulis, primo tectis, dein erumpentibus vel cortice secedente liberis, basi ligno late nigrificato semiinfossis, atris, subcarbonaceis, ostiolo minuto non vel vix papillulato pertusis, glabris, atris; sporulis ellipticis, utrinque acutiusculis, 6-8 = 2-3,5, grosse 2-guttulatis, hyalinis; sterigmatibus simplicibus, concoloribus, basi incrassatulis, 10-15 = 1,5, fultis.

Hab, in ramulis dejectis putrescentibus Solani glauci in uliginosis de la Pampa de Tuyú in Argentina. — Status spermo-

gonicus Diaporthes (Euporthe) pampeanæ Speg.

380. Phoma Dulcamaræ (Nits.) Sacc. Mich. II. p. 272. — Peritheciis 759 subcutaneis, gregariis, atris; sporulis fusoideis, 8-10 \(\pi 2\), 2-guttulatis, hyalinis, basidiis filiformi-hamatis, $25 \(\pi 1^{1}/_{2}\)$, suffultis.

Hab. in caule Solani Dulcamaræ, in Italia boreali et in

Gallia. - Spermogonium Diaporthes Dulcamara.

381. Phoma venenosa Sacc. Mich. II. p. 94. — Peritheciis gregariis, 760 epidermide nigricante tectis, oblongis; sporulis oblongo-cylindraceis, $7 \approx 2^{1}/_{2}$, basidiis filiformibus fultis.

Hab. in caulibus Datura Stramonii, Toulouse in Gallia

(ROUMEGUERE). - Spermogonium Diaporthes.

382. Phoma importata (Nits.) Sacc. Mich. II. p. 380. — Perithæiis 761 laxe gregariis, subcutaneis, vix erumpentibus, depresso-globosis, $\frac{1}{3}$ mill. diam., vix papillatis, griseo-nigris; sporulis tereti-fusoideis, utrinque obtusiusculis, $7-8 \approx 2\frac{1}{2}-3$, biguttulatis, hyalinis, basidiis fasciculatis acicularibus, $18-20 \approx 2$, fultis.

Hab. in caulibus emortuis Lycii sinensis, in horto botanico

Patavino (Bizzozero). — Certe Diaporthes (Tetrastaga) importatæ Nits. spermogonium.

383. Phoma Tatulæ Kalch. et Cooke Grevillea 1880, p. 18. — Spar- 762 sa, minima; peritheciis membranaceis, punctiformibus, fuscis; sporulis ellipticis, hvalinis, $6.5 \approx 4$.

Hab. in caulibus Daturæ Tatulæ, in Africa australi.

384. Phoma silvatica Sacc. Mich. II. p. 337. — Peritheciis grega- 763 riis, subcutaneis, prominulis, globulosis, 150 μ . diam., ostiolo minuto; sporulis oblongo-cylindraceis, minutis, $4 \approx 1$, utrinque rotundatis, 2-guttulatis, hyalinis.

Hab. in caulibus emortuis Melampyri silvatici, Rouen in Gallia (Malbranche).

385. Phoma acanthina Sacc. et Roum. Mich. II. p. 335. — Perithe- 764 ciis dense gregariis, subcutaneis, globoso-depressis, pertusis, 150 p. diam.; sporulis oblongis, leniter curvis, utrinque obtusiusculis, 16-18 \times 6-7, nubilosis, hyalinis; basidiis filiformibus, sesquilongioribus suffultis.

Hab. in caulibus Acanthi mollis culti, Montauban in Gallia. 386. Phoma cordobensis Speg. Fung. Arg. Pug. II. n. 95. — Peri- 765 theciis dense sparsis, minutis, 100-110 µ. d., lenticulari-globosis, tectis, prominulis, atris, tenui-membranaceis, contextu minutissime parenchymatico, fuligineo, ostiolo impresso pertusis; sporulis ellipticis, quandoque inæquilateralibus, utrinque obtusis ac 1-guttulatis, 5-8 ≈ 2-4, hyalinis.

Hab. in caulibus emortuis Privæ levis, in herbosis prope Cordoba in Argentina.

387. Phoma nitidula Sacc. Mich. II. p. 96. — Peritheciis gregariis, $_{766}$ epidermide nitida velatis, globoso-depressis, $_{14}^{1}$ mill. diam.; sporulis fusoideis, $_{10}^{1} = 2 - 2 \frac{1}{2}$, 2-guttulatis, hyalinis, basidiis paulo longioribus, $_{15}^{1} = 1$, suffultis.

Hab. in caulibus Scrofularia nodosa, in Gallia (LetenDRE). — Spermogonium Diaporthes.

388. Phoma errabunda Desm. Ann. Sc. Nat. 1849, p. 282. — Peri- 767 theciis globoso-depressis, 200 μ . diam., pertusis, nigris, nitidulis, 1/4 mill. diam., contextu parenchymatico distincto, fuligineo; sporulis perexiguis, ovoideis, $3-4 \approx 1^{1}/_{2}$, hyalinis.

Hab. in caulibus Verbasci Thapsi, thapsiformis, nigri, in Gallia. Britannia, Belgio et Germania.

389. Phoma Veronicæ Roum. Fungi Gallici exsic. cent. XXX. Revue 768 Mycolog. Ann. VI. p. 160. — Peritheciis innatis, numerosis, densis,

convexo-rotundatis, nigris, poro pertusis; nucleo albo; sporulis ovoideis, 5 \pm 2,5, hyalinis, non guttulatis; basidiis....

Hab. in caulibus siccis Veronica spicata, Grand Quevilly (Seine infer.) in Gallia.

390. Phoma Phlogis Roum. Fungi Gallici exsic. cent. XXX. Revue 769 Mycolog. Ann. VI. p. 160. — Peritheciis aggregatis, numerosis, conicis, basi depressis, nigris, epidermide nigro-nebulosa tectis; nucleo albido; sporulis cylindricis, utrinque obtusis, 4-5 \u2221 1,5-2, hyalinis, 2-guttulatis; basidiis.....

Hab. in caulibus siccis Phlogis Drummondii, Grand Que-

villy (Seine infer.) in Gallia (LETENDRE).

391. Phoma verbascicola (Schw.) Cooke in Rav. F. Amer. n. 141, 770 Spharia verbascicola Schw., Sacc. Syll. II. p. 428. — Peritheciis tectis, globoso-depressis, dein collapsis, centro pertusis; sporulis ellipsoideis, hyalinis, 4-4,5 µ. longis.

Hab. in caulibus Verbasci Thapsi et aff., in Carolina et

Pensylvania.

392. Phoma Phlomidis Thum. Pilzfl. Sibir. n. 788. — Peritheciis gre-771 gariis, submagnis, epidermide pertusis, conicis, nitido-atris, semi-immersis; sporulis bacillari-fusiformibus, utrinque rotundatis, subrectis vel arcuatulis, continuis, bi-quinquenucleatis, hyalinis, 10-12 = 2-2.5.

Hab. in caulibus emortuis Phlomidis tuberosæ, prope Minussinsk in Sibiria asiatica.

393. Phoma Sceptri Karst. Hedw. 1884, p. 59. — Peritheciis gre-772 gariis, subcutaneis, orbicularibus aut anguloso- vel oblongato-rotundatis, applanatis, astomis vel ostiolo subpapillato, contextu celluloso, $3-5~\mu$. lat.; sporulis elongatis, solito rectis, utrinque obtusis, hyalinis, $5-7 \approx 1-2$.

Hab. ad caules emortuos Pedicularis Sceptri-Caro-

lini, in Lapponia rossica extrema prope Subori.

394. Phoma Marrubii (D. et M.) Sacc. Sphæronæma Marrubii Dur. 773, et Mont. Fl. Alg. p. 580. — Caulicula, innato-erumpens, gregaria; peritheciis hemisphæricis, ½ mill. diam., tandem vertice conico, denudatis, atris, opacis, poro pertusis, intus corneis; globulo sordide albo; sporulis oblongis sub-binucleatis, 10 μ. long., hyalinis.

Hab. in caule Marrubii hispanici, prope Oran'in Alge-

ria (Durieu).

395. Phoma polygramma (Fr.) Sacc. Sphæria polygramma Fr. S. M. 774 II. p. 432, Sphæropsis polygramma Fr. S. Veg. Sc. p. 419. — Tecta; peritheciis prominulis seriatis, subconfluentibus, in maculas late effusas dispositis, albofarctis, apice umbilicatis.

Hab. in caulibus Ballotæ nigræ, in Suecia et Germania. — Analoga cum Phoma nebulosa. Stroma nullum. Perithecia prominula, ut facile superficialia crederes, minuta, globoso-depressa, mollia, astoma, nigra, nitida, sæpe in maculas eleganter effiguratas, scripturam tenuissimam referentes, aggregata. — v. albicans Fr.: peritheciis gregariis epidermidem elevatam exalbicantibus. In durissimo caule. — v. scripta Fuck. In caulibus Galeopsidis Tetrahit. — v. Plantaginis. In scapis Plantaginis lanceolatæ. — Cfr. Sphærella polygramma Syll. I. p. 521.

396. Phoma phyllostictea Sacc. et Penz. Mich. II. p. 618. — Peri-775 theciis gregariis, epidermide velatis, globoso-lenticularibus, 100-110 µ. diam., pertusis; sporulis perexiguis, oblongo-teretiusculis.

utrinque rotundatis, subrectis, 3,5 = 1,5, hyalinis.

Hab. in caule putrescente Ballotæ, Ålais (bords du Gardon)

in Gallia (THERRY).

397. Phoma Betonicæ Sacc. Rhaphidosporæ Betonicæ spermogonium 776 Thum. F. Austr. n. 16. — Peritheciis atris, subrotundis; sporulis elongato-ellipticis, 4-guttulatis, hyalinis.

Hab. in caulibus emortuis Betonicæ hirsutæ rarissime,

prope Budweis in Bohemia (KIRCHNER).

398. Phoma montana Speg. Mich. I. p. 482. — Peritheciis subepi- 777 dermicis, erumpentibus, membranaceo-carbonaceis, $110-150~\mu$. d., sublenticularibus; sporulis fusoideis, utrinque acuminatis, nubiloso-granulosis, non vel 2-guttulatis, $6-10 \approx 1\frac{1}{2}-2$.

Hab. in ramis emortuis Saturejæ montanæ, Susegana in

Italia boreali.

399. Phoma denigrata Desm. 22 Not. pag. 6. — Peritheciis sparsis, 778 majusculis, convexis, nigris, epidermide atrata tectis, dein erumpentibus, subinde circumscisso-deciduis; ostiolo papillato, nitido; nucleo griseo; sporulis fusoideis, $10-12 \approx 3^{1}/_{2}-4$, 2-guttulatis; sterigmatibus hamatis, $20-24 \approx 1$, fultis.

Hab. in caule atrato putrido Prunellæ vulgaris, in Gallia et Italia. — Spermogonium Diaporthes Desmazierii Niessl.

400. Phoma multipunctata Sacc. Mich. II. pag. 275. — Peritheciis 779 dense et late gregariis, cpidermide velatis, atris, globoso-depressis, ½ mill. diam.; sporulis oblongo-ellipsoideis, utrinque obtusius-

culis, $6-71/2 \approx 2-3$, 2-guttatis, hyalinis; basidiis filiformibus, hamatis, $20-22 \approx 1-11/2$, pluriguttulatis, hyalinis.

Hab. in caulibus emortuis Lamii, Padova in Italia boreali.
Spermogonium Diaporthes.

401. Phoma Stigma Cooke et Harkn. in Grevillea n. 64. — Cauli- 780 cola; peritheciis minutis, sparsis vel subgregariis, punctiformibus, semiimmersis, poro pertusis; sporulis ellipticis, continuis, hyalinis, $6 \approx 3$.

Hab. in caulibus Portulace, in California.

402. Phoma exserta Thüm. Myc. Univ. n. 95. — Peritheciis globosis, 781 atris, exsertis, dense gregariis; sporulis ellipsoideis, binucleatis, hyalinis, minimis.

Mab. in caulibus foliisque aridis Melandryii noctiflori, Bayreuth in Bayaria (Dr. Walther).

403. Phoma collabers Dur. et Mont. Syll. n. 984. — Peritheciis elli- 782 ptico-subrotundis, primo epidermide tectis, dein erumpenti-prominulis, atris, nitidis, umbilicato-collabentibus, poro minimo pertusis; sporulis ovoideis, hyalinis.

Hab. in caule foliis sepalisque Minuartiæ campestris et M. montanæ, in Algeria occidentali.

404. Phoma intermedia Sacc. F. V. N. ser. IV. 9. sub n. 21. — Pe- 783 ritheciis sphæroideis, rugulosis, inter corticem lignumque nidulantibus, aterrimis, nucleo fusco fætis; sporulis breve fusoideis, utrinque acutis, $6 \approx 2.5$, crasse 2-guttatis, hyalinis; basidiis filiformihamatis, $20 \approx \frac{1}{2}$.

Hab. in caulibus Saponariæ, in Italia boreali, socia Diaporthe intermedia Sacc., cujus est status spermogonicus.

405. Phoma Causcoræ Rabenh. Hedw. 1878, p. 176. — Peritheciis 784 punctiformibus, atris, gregariis, epidermide velatis; sporulis oblongo-fusiformibus, guttulatis, 5-7 ≈ 2, hyalinis.

Hab. in caule Causcoræ decussatæ, in India orient. (Kurz).
406. Phoma striæformis Dur. et Mont. Alg. p. 603. Syll. n. 977. — 785
Peritheciis ovoideis, subaggregato-seriatis, innato-erumpentibus, atris, opacis, ostiolo conspicuo instructis seu perforatis; basidiis brevibus sporulas oblongas fulcientibus.

Hab. in ramis dejectis Sambuci nigræ, ad Tlemcen, nec non in caulibus Ricini etc., apud Alger (Durieu), Coimbra (Moller), in ramis demum decorticatis Sambuci nigræ, Toulouse in Gallia (Roumeguere). — Perithecia in striolas hysteriaceas hinc inde arcte digesta, globulosa, pertusa; sporulæ 6-7 = 3, 2-guttulate, hyalinæ,

brevi stipitatæ. — v. hysteriola Sacc. Mich. II. pag. 93: sporulæ $7-8 \approx 2^{1}/_{2}-3$, 4-guttulatæ, longius stipitatæ; perithecia similia. In caule Dipsaci, Rumicis Acetosæ et Papaveris somniferi, Saintes, Rouen in Gallia.

407. Phoma ebulina Sacc. et Schulz. Micr. Slav. n. 40. Schulz. Ill. 786 Fung. Slav. n. 703. — Ut *Phoma Ebuli*, sed sporulis ovoideo-oblongis, utrinque obtusiuscule attenuatis, biguttulatis, hyalinis, 6-12 y. longis.

Hab. in caule Sambuci Ebuli, prope Vinkovce. — Probabi-

liter status spermogonicus Diaporthes cujusdam.

408. Phoma ebulicola Sacc. et Schulz. Micr. Slav. n. 41. Schulz. Ill. 787 Fung. Slav. n. 702. — Peritheciis ut in Phoma Ebuli; sporulis 5-10 μ. longis, hyalinis, cylindraceis, curvulis.

Hab. in caule Sambuci Ebuli pr. Vinkovce.

409. Phoma Ebuli Schulz. et Sacc. Micr. Slav. n. 39. Schulz. Ill. Fung. 788 Slav. n. 701. — Peritheciis globosis, epidermide velatis, subastomis, 0,2 mill. diam., intus albidis; sporulis ovatis v. oblongis, hyalinis, perexiguis, 1,5-2,5 μ. longis.

Hab. in caule Sambuci Ebuli, pr. Vinkovce.

410. Phoma Lobeliæ B. et Br. F. of Ceyl. n. 802. — Pustulis epi- 789 dermide alba tectis, demum emersis; sporulis ellipticis, 3,5-4 μ. longis.

Hab. in Lobelia nicotianæfolia, Nuwara Eliya in Ceylon.

411. Phoma Heuffelii (B. et C.) Sacc. Sphæropsis Heuffelii B. et 790 C. Exot. Fungi, pag. 280. — Peritheciis globosis, demum liberatis, basi floccis brunneis cinctis; sporulis oblongis, hyalinis, subinde curvulis, 16-17 μ. longis.

Hab. in caulibus vivis Lobeliarum, in India occid. (Schwein).

412. Phoma devastatrix B. et Br. Ann. N. H. n. 813. — Peritheciis 791 perexiguis, punctiformibus, nigris, globosis, poro pertusis; sporulis oblongis, hyalinis, 2-3-guttulatis, 8-10 μ. longis.

Hab. in Lobeliis cultis in hortis, quibus damnum maximum affert, in America boreali.

413. **Phoma Spirææ** Desm. Observ. crypt. 1830, p. 13. — Perithe- 792 ciis epidermidem sublevantibus, minimis, numerosis, suborbicularibus, convexis, nigris, nitidis, pertusis; sporulis ovato-oblongis, 10-12 μ. longis, utrinque 1-guttatis, hyalinis.

Hab. in caulibus Spirææ Arunci, in Gallia. — «Sporulæ a me visæ fusoideæ, 10 ≈ 3, 2-guttulatæ, hyalinæ, basidiis bacillaribus subæquilengis suffultæ».

414. Phoma herbarum West. Exs. 965, Mich. II. p. 92. — Perithe- 793 ciis gregariis, epidermide initio velatis, globoso-depressis, papillulatis, nigris; sporulis ovoideis vel ovoideo-oblongis, plerumque 2-guttulatis, hyalinis, 6-11 = 3-4, basidiis brevissimis suffultis.

Hab. in caulibus herbarum fere omnium in Europa tota, Amer. bor., Sibiria asiatica. — Habentur plurimæ formæ: Thulensis Karst. Hedw. 1884, p. 39: perithecia 90-100 u. diam.; sporulæ rectæ 7-10 = 10, eguttulatæ. In caulibus Pedicularis, Thule. - Dipsaci: spor. 8-9 = 3-4, 2-guttulatæ, hyalinæ. — Mercurialis: spor. 6-7 = 21/9, lenissime curvæ, 2-guttulatæ. — Sambuci nigræ: spor. 6-8 = 3-31/2, curvulæ. — Solidaginis: spor. 7-9 \times 3-4, rectæ. — Aristolochiæ Siphonis: spor. $7 = 4-4\frac{1}{2}$. — Valerianæ: spor. $6 = 3\frac{1}{2}$. — Antirrhini: spor. $8-9 \approx 3^{1}/2$. — Galiorum: spor. ovato-oblong: 2-guttulatæ, hyalinæ, basidiis brevissimis suffultæ, 8 = 3. — Marrubii: spor. 8-10 = 3. — Absinthii: spor. 10 = 3-4. — Urticæ: spor. 7 = 4, nec non Verbenæ, Lactucæ, Helichrysi, Brassicæ, Hyoscyami, Euphrasiæ, Humuli: sporulæ 6-7 = $2^{1}/_{2}$ -3; perithecia 110-120 μ . diam. — Rubi: spor. $7 \approx 3^{1}/_{0}-4$. — medicaginea: perith. 200 μ . diam., contextu rufo-fuligineo; spor. 5-6 = 3, leniter curvæ. — Medicaginis Fuck. Symb. 134: sporulæ oblongæ rectæ, $10 \approx 3$, 1-2-guttatæ. — Catalpæ capsularum: spor. 7-8 = 31/2. — Dahliæ: spor. $7-8 \approx 4$, 2-guttato-nubilosæ. — Calystegiæ: spor. $7-8 \approx 2^{1}/_{2}$, curvulæ, 2-guttulatæ. — Fæniculi: spor. 6-7 = 31/2-4, curvulæ. — Phytolaccæ: spor. $6 = 3^{1}/_{2}$, rectiusculæ. — Schoberiæ: spor. 7-9 = 331/2, curvulæ, 3-guttulatæ; perithecia conoidea. — Salicariæ: spor. $8-9 \approx 3-31/2$; perithecia depresso-conoidea, 150 μ . diam. — Blattariæ: spor. 10-12 = 4, rectiusculæ 2-4-guttulatæ; perithecia globoso-depressa 90-100 μ . diam. — Capparidis: spor. $7-8 \approx 4$, minute 2-guttulatæ; perithecia globoso-depressa 100 μ. diam. — Lilacis: spor. $7 \approx 4$, curvulæ. — Phlæi: spor. $10-12 \approx 3^{1}/_{2}-4$, rectiusculæ, eguttulatæ; perithecia globoso-depressa 1/4 mill. diam. — E formis modo enumeratis sequentes: Phoma Schoberia, Blattarice et Phlæi, ut satis desciscentes distingui possent.

415. Phoma acuta Fuck. Symb. myc. p. 125, Mich. II. p. 93. — Pe- 794 ritheciis globosis majusculis, initio velatis, dein denudatis; ostiolo acute conoideo; sporulis oblongis, 4 ≈ 1½, 2-guttulatis, hyalinis.

Hab. in caulibus Urticæ, Scrofulariæ, Ballotæ, in Britannia, Germania, Italia, Gallia et in Amer. bor. — Aposphæria acula Berk Outl. 315 huc verisimillime spectat. — *Ph. amplior S. et R.; sporulis longioribus, nempe 7 ≈ 2; peritheciis quoque

paulo majoribus, nempe $\frac{1}{3}$ mill. diam. In caule Fæniculi, in Gallia et Germania.

416. Phoma bacillaris Sacc. Mich. II. p. 273. — Peritheciis subgre- 795 gariis, globoso-conicis, subcutaneo-erumpentibus, $^1/_6$ mill. diam., pertusis, intus pallidis; sporulis cylindraceis, leniter curvis, $15 \approx 2$, utrinque obtusis, sub-4-guttulatis, hyalinis, basidiis filiformibus simplicibus furcatisve, $15-16 \approx 2$, suffultis.

Hab. in caule Aconiti Napelli, Cichorii et Arabidis Thalianæ, in Gallia; et in caule Medicaginum, in Italia boreali. — Affinis quoque Phomee ancipiti Sacc., que precipue peritheciis depressis, majoribus differt.

417. Phoma Berkeleyi Sacc. F. V. N. ser. II. p. 303, sub n. 20, et 796 ser. V. p. 200. — Peritheciis minutis, innato-superficialibus, sphæroideis, papillulatis; sporulis cylindraceis, 8-10 ≈ 2, biguttulatis, hyalinis (sed coacervatis dilutissime luteolis).

Hab. in caulibus Lappæ, Lathyri, Galeopsidis etc., in agro Tarvisino, socia Phomatospora Berkeleyi, cujus status spermogonicus videtur.

418. Phoma exigua Desm. Exs. n. 1869. — Peritheciis copiosis, 797 sparsis v. approximatis, minutis, globosis, poro pertusis, epidermide tectis, brunneis, dein nigris; nucleo albido; sporulis ovoideis, exiguis, hyalinis, 5-7 μ. longis.

Hab. in caulibus foliisque Polygoni tatarici, Lini et Sambuci, in Gallia, Britannia et Belgio. — Var. Ranunculorum Desm.: peritheciis sape ovatis; sporulis minoribus, 3-4 μ. longis. In foliis Ranunculorum in Gallia.

419. Phoma Epilobii Preuss Hoyersw. n. 282. — Macula subrotum- 708 do-difformi, ambiente lavigata, uniformi; peritheciis piceis, cellulosis, albo-farctis, apice sape depressis; sporulis subfusiformibus, plus minus apice rotundatis, albis, guttulis oleosis repletis.

. Hab. in caule Epilobii angustifolii, Hoverswerda.

420. Phoma contherella Sacc. Mich. I. p. 524. — Peritheciis gre- 709 gariis, tectis, lenticularibus, pertusis, 110 ρ . diam.; contextu circa ostiolum subfimbriato pallidiore; sporulis ovatis v. subreniformibus, $7 \approx 4$, hyalinis (basidiis non visis).

Hab. in caule (Enother biennis, Rouen in Gallia (LETENDRE).

421. **Phoma Enotheræ** Sacc. Mich. I. p. 524. — Peritheciis subcu. 800 taneis, globoso-lenticularibus, late pertusis, 140 μ. diam., grega-

riis; sporulis oblongis, deorsum attenuatis, $8 \approx 2$, 2-guttatis, hyalinis, basidiis filiformibus, $20 \approx 2$, sursum acutioribus suffultis.

Hab. in caule Enother biennis, Rouen in Gallia (LETENDRE).

422. Phoma nebulosa (Pers.) Mont. Berk. Outl. p. 314. Sphæria ne- 801 bulosa Pers. Syn. p. 31, Sphæropsis nebulosa (Pers.) Fr. S. M. II. p. 430. — Tecta; peritheciis minimis gregariis, maculas griseas interruptas inæqualiter lineatas efformantibus; ostiolis prominulis subacutis; sporulis oblongo-ovoideis, 2-guttulatis, hyalinis.

Hab. in caulibus Petroselini, Solani, Phlogis, Pastinacæ, Malvæ, Urticæ, Cruciferarum etc., in Germania, Britannia, Suecia, Gallia, Italia, Belgio, America boreali, nova Zelandia. — Maculis griseis forma et magnitudine variis, e crustula subcuticulari nigra ortis, facile dignoscitur: perithecia admodum pusilla, inter se libera et irregulariter seriata. — *Althææ Sacc. In caulibus Althææ off. in Gallia. Perithecia punctiformia, 80 p, diam.; sporulæ oblongatæ, $7 = 8 \approx 1^3/4 = 2$, hyalinæ.

423. Phoma oleracea Sacc. Mich. L. p. 91. — Peritheciis sparsis, 802 globoso-depressis, papillulatis, 1/4-1/3 mill. diam., initio velatis; sporulis oblongo-subcylindraceis, medio quandoque subconstrictis,

utrinque obtusiusculis, 5-6 = 2, 2-guttulatis, hyalinis.

Hab. in caulibus Brassicæ oleraceæ, in Gallia, sicut et varietates sequentes. — Affinis, sed non identica cum Ph. herbarum West., a qua sporulis angustioribus differt. — Var. Antirrhini: sporulis, $4-5\approx1\frac{1}{2}-2$. — v. Urticæ: sporulis $5-6\approx2$. — v. Dipsaci: sporulis $5\approx1\frac{1}{2}$. — v. Scrophulariæ: sporulis $5\approx2$. — v. Solidaginis: sporulis $5-6\approx1\frac{1}{4}$, curvulis. — v. Helianthi tuberosi: sporulis $5\approx2$, rectis.

424. Phoma punctata Speg. Revue myc. II. p. 161. — Peritheciis ma- 803 jusculis 150-180 μ. diam., lenticularibus, subepidermicis, in matrice late dealbata nidulantibus, epidermidi superne adnatis atque atro maculantibus; sporulis hyalinis, ellipticis, non vel 2-guttulatis,

utrinque obtusis, $8 \approx 3-4$.

Hab. ad caules dejectos putrescentes Cucur bitace æ vel Bor-

ragineæ cujusdam, S. Vincent insula Africæ.

425. Phoma melæna (Fr.) Mont. et Dur. Alger., Kickx Fl. I. p. 437. 804 Sphæria melæna Fr. S. M. II. p. 431 p. p. — Indeterminata, ambiente effusa, epidermide atrata tecta; peritheciis seriatis, albofarctis, subastomis; sporulis ellipticis, obtusiusculis, enucleatis, hyalinis (5-6 \(\approx 3 \) in forma Silenes).

Hab. in caulibus exsiccatis Lathyri, Ervi, Astragali, Viciæ, Medicaginum, Silenes, in Suecia, Gallia, Germania, Sibiria, Belgio, Italia. — Nudo oculo caules modo undique atroinquinati apparent; sed his dissectis observantur perithecia subglobosa, inter se libera, secundum fibras caulis seriata, stromate effuso atro conjuncta, leviter prominula, subglobosa, demum pertusa. — Phoma melæna Pr. Hoyersw. n. 280, forte eadem species est. Sphærella melæna (Syll. I. p. 513) est probabiliter status ejusdem ascophorus.

426. Phoma subordinaria Desm. 17 Not. p. 12. — Peritheciis mi- 805 nutis, ¹/₄-¹/₂ mill. diam., numerosis, subseriatis, ovatis, convexis, intus sordidis, epidermide tectis; ostiolis minutis, nudis, dein deciduis; sporulis oblongis, 7 μ. longis, biguttulatis, hyalinis.

Hab. in scapis siccis Plantaginis lanceolatæ, in Gallia, Italia, Belgio, Britannia. — Spermogonium Diaporthes adunce

(Desm.).

427. Phoma Menispermi Peck Rep. on the St. Mus. N. Y. — Peri- 806 theciis minutis, sparsis, prominulis, atro-nitidulis, subcutaneis, dein erumpentibus; sporulis minutis.

Hab. in caulibus emortuis Menispermi canadensis, Greenbush in America boreali. — Perithecia denique secedentia foveolasque albas linquentia. An eadem ac Ph. sarmenticia Sacc.?

428. Phoma sarmenticia Sacc. Mich. II. p. 94. — Peritheciis grega 807 riis, tectis, oblongis; sporulis oblongis, $8-10 \approx 2-2^{1}/4$, 2-guttatis, basidiis uncinatis, $20 \approx 1$, fultis.

Hab. in sarmentis Menispermi canadensis, in horto botanico Rothomagensi in Gallia (MALBRANCHE). — Spermogonium Diaporthes

429. Phoma inconspicua Speg. Nov. Add. n. 146. Mich. II. p. 273 808 (nec Desm. Cfr. Aposphæria). — Peritheciis minutissimis $100~\mu$. diam., globoso-lenticularibus, subepidermicis, ostiolatis, prominulis, atris, contextu membranaceo-parenchymatico, olivaceo-fuligineo; sporulis minutis, numerosis, hyalinis, $4-6 \approx 2-3$.

Hab. in scapis floralibus emortuis Droseræ rotundifoliæ, in sphagnetis alpinis silvæ Cansiglio in Italia boreali.

430. Phoma alpina Speg. Nov. Add. n. 145. Mich. II. p. 272. — Pe- 809 ritheciis lenticularibus, primo epidermide tectis, dein liberis, atris, $120-150~\mu$. diam., ostiolo parum prominulo donatis, parenchymatico-membranaceis; sporulis ellipticis vel elliptico-ovoideis, hyalinis, $3-5\approx 1\frac{1}{2}-2$.

Hab. in scapis dejectis putrescentibus Saxifragæ Aizoon, in alpinis M. Marmolada (Cadore) in Ital. bor. — Var. planiuscula Karst. Hedw. 1884, pag. 38. — Peritheciis subgregariis, epidermide tectis, orbicularibus, applanatis, papilla brevissima, latiuscula erumpente, atra, 200 μ . lat.; sporulis elongato— vel oblongato-fusoideis, rectis, eguttulatis, hyalinis, $3-4 \approx 1.5-2$. Ad caules siccos Saxifragæ hieraciifoliæ, in Green Harbour Spetsberg.

431. Phoma Dictamni Sacc. Rhaphidosporæ (Ophioboli) Dictamni 810 Spermog. Fuck. Symb. p. 125. — Peritheciis tectis, subrotundis, atris, ostiolis cylindraceis, perithecium æquantibus, prominulis;

sporulis elongato-ellipsoideis, hyalinis, 4-guttatis.

Hab. in caulibus Dictamni Fraxinellæ, rarius pr. Gaual-

gesheim in Rhenogovia. — Ad Sphæronæma vergit.

432. Phoma leptidula Sacc. Mich. I. p. 522 (sub leptidea). — Peri- 811 theciis subparallele gregariis, oblongis, subcutaneo-erumpentibus, $1/2 \approx 1/6$ mill. diam., subastomis; sporulis fusoideis, curvulis, $10-12 \approx 3$, 3-4-guttulatis, hyalinis, basidiis filiformibus, sesquilongioribus, fasciculatis suffultis.

Hab. in caulibus Hyperici Androsæmi, prope Rouen in

Gallia (LETENDRE).

433. Phoma atrificans Sp. Pug. Fung. Arg. III. n. 97. — Peritheciis gre-812 gariis, fere totum corticem occupantibus, atris, lenticulari-globosis, 120-140 μ. d., carbonaceo-membranaceis, ostiolo impresso perforatis; sporulis ellipticis, v. ovoideis, hyalinis, simplicibus, 6-8 ≥ 2.

Hab. in sarmentis emortuis Araujæ albentis, ubique vul-

gatissima in Argentina, regione Americæ merid.

434. Phoma Centranthi Sacc. Mich. II. p. 92. — Peritheciis dense 813 gregariis, epidermide tectis, globoso-depressis, $\frac{1}{6}$ mill. diam.; sporulis oblongis, $9 \approx 1\frac{1}{2}$ -2, eguttulatis, hyalinis.

Hab. in caulibus Centranthi rubri, Toulouse in Gallia. -

Affinis Ph. herbarum West.

435. Phoma Rubiæ Sacc. Mich. I. pag. 526. — Peritheciis subgre- 814 gariis, epidermide æquali velatis, globoso-lenticularibus, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam.; sporulis oblongis, quandoque curvulis, $8 \approx 2\frac{1}{2}$ -3, 2-guttulatis, hyalinis, basidiis cylindro-conicis, 15 μ . long. sufficient

Hab. in caulibus Rubiæ peregrinæ, Saintes in Gallia (Bru-

NAUD).

436. Phoma elliptica Peck 27 Rep. p. 101. — Peritheciis initio epi- 815 dermide tectis, dein liberatis, sparsis, ellipsoideis, nigris; sporulis oblongo-ellipsoideis, hyalinis, biguttatis, 8-9 ≈ 4.

Hab. in caule emortuo Galii borealis, West Albany in America boreali. - Perithecia subinde secedunt foveolamque albam nigro-limitatam relinquunt.

437. Phoma Crucianellæ (Dur. et Mont.) Sacc. Sphæropsis Crucia-816 neller D. et M., Fl. Alg. p. 463. Syll. I. p. 826. — Erumpens, mox nuda; peritheciis pro ratione magnis ovoideis, sparsis aggregatisve, confluenti-subscriatis, atris, ostiolatis; ostiolo prominulo; sporulis linearibus, rectis aut curvulis, uno latere gibbosis (ascis diffluentibus?).

Hab. in caulibus Crucianelle maritime, La Calle in Algeria (Durieu).

438. Phoma Cacti Berk, in Welw. Pl. Port. p. 12. - Maculis sub- 817 orbicularibus vel effusis; peritheciis majusculis, innato-prominulis; sporulis minutis, oblongo-ellipsoideis; basidiis filiformibus.

Hab. in caule Cacti peruviani, Lumiar et Coimbra in Lusitania. - Var. Opuntiæ Sacc. Mich. I. p. 524. Peritheciis sublenticularibus, 100-110 μ . diam., pertusis; sporulis ovoideis, $5-7 \approx 4$, hyalinis, basidiis brevissimis suffultis. In caule Opuntiæ, Saintes in Gallia (BRUNAUD).

439. Phoma torrens Sacc. Miscell. Mycol. p. 26. - Peritheciis den- 818 se gregariis, plagas in plantis initio vivis magis magisque diffusas, arescendo griseo-ochraceas afficientibus, punctiformibus, globoso-hemisphæricis, 100-150 µ. diam., initio epidermide velatis, dein erumpentibus, vertice obtusiusculo pertusis; contextu parenchymatico fuligineo, solidiusculo; sporulis in basi sporigera subsessilibus, obovatis, $8-10 \approx 7$, nunc minute pluriguttulatis, nunc crasse 1-2-guttatis, hyalinis.

Hab. in Cereis, Echinocactis, Mammillariis cultis, quibus cutem mox urit et tandem mortem affert, in horto botanico Romano, ubi cum amico prof. Pirotta legi auctumno 1883, nec non in hortis Patavinis. — Cum Phoma Cacti Berk. non comparanda. Sporulæ sæpe guttulis minutis farctæ ascos polysporos fere imitantur.

440. Phoma anthracina Speg. F. Arg. Pug. IV. n. 274. — Perithe- 819 ciis minutis, 100-110 \(\mu\). diam., conoideo-lenticularibus, atris, subcarbonaceis, densissime gregariis, sepissime confluentibus, matricem strato subcrustaceo atro hinc inde per corticem erumpente inquinantibus; sporulis ellipticis, quandoque subinæquilateralibus, utrinque obtuse rotundatis, non v. 2-guttulatis, 5-7 = 2, hyalinis.

Hab. in ramulis languidis Rhipsalidis sarmentaceæ ad

truncos Erythrinæ Cristæ-galli in paludibus, Ensenada in Argentina.

441. Phoma Stapeliæ Kalch. et Cooke Grev. 1880, p. 18. — Sparsa, 820 epidermide nigrificata tecta; peritheciis globoso-depressis; sporulis arcte ellipticis, hyalinis, binucleatis, 10-12 ≈ 3.

Hab. in caulibus Stapeliæ moschatæ, in Africa australi.

442. **Phoma muralis** Sacc. Mich. II. p. 91. — Peritheciis epidermide sel tectis, gregariis, globoso-depressis, ½ mill. diam., papillulatis, contextu parenchymatico, fuligineo, solidiusculo; sporulis ellipsoideis, 6 ≈ 5, utrinque rotundatis, inordinate pluriguttulatis, hyalinis.

Hab. in caulibus emortuis Sedi albi, prope Rouen in Gallia (MALBRANCHE).

443. Phoma oculata (Pr.) Sacc. Sphærocista oculata Preuss Hoyersw. 822 n. 310. — Pustulis gregariis minutis, rotundatis; peritheciis globosis, corneis, ad basin hyphis ligna penetrantibus vestitis; ostiolo acuto perforante; basidiis tenuibus, abbreviatis; sporulis subfusiformibus, utrinque rotundatis, biguttatis, guttulis oleo repletis, hyalinis, albis.

Hab. in cortice Sedi hybridi, Hoyerswerda.

444. Phoma Phytoiaccæ B. et C. North Am. F. n. 385. — Sub cu- 823 ticula dealbata oriunda, nitens; sporulis fusiformibus binucleatis, 10 v. longis, hyalinis.

Hab. in caulibus Phytolaccæ, New Jersey et New York in America boreali. — Sec. Peck. 33 Rep. pag. 23: perithecia depressa, orbicularia v. oblonga, sæpe seriata, ostiolo instructa; sporulæ, 12-13 α longæ, 4-6-nucleatæ.

445. Phoma lirella Desm. Ann. Sc. nat. 1849, pag. 281. — Innata, 824 erumpens, minuta, nigra, lineari-oblonga, 1 mill. long. \(\frac{1}{4}\)-1/3 mill. cr.; stromate albido; peritheciis 3-5 exiguis, seriatis, poro pertusis; sporulis stipitatis, 5-7 \(\rho\). long., 2-guttatis, hyaliais.

Hab. in ramis siccis denudatis Vincæ minoris, in Gallia.

446. Phoma salsa Sacc. Mich. I. p. 126. — Peritheciis gregariis pun- 825 ctiformibus, epidermide velatis erumpentibusque, globoso-depressis, 100 p. diam., pertusis; contextu distincte celluloso, ochraceo-fuligineo; sporulis cylindraceis, lenissime curvis, 4 = 1, utrinque rotundatis, 1-guttulatis, hyalinis.

Hab. in ramis bracteisque Salsolæ Kali, ad Nord-canal pr. Berolinum in Germania (P. Magnus).

447. Phoma superflua Sacc. Mich. I. p. 522. — Peritheciis gregariis, 826 punctiformibus, 80-90 p. diam., epidermide velatis, minute pertu-

sis, contextu olivaceo-fuligineo; sporulis cylindraceis, utrinque obtusis, sæpe curvis, $10-15 \approx 3-3\frac{1}{2}$, 2-guttulatis, hyalinis (basidiis non visis).

Hab. in caule Scabiosæ Columbariæ, pr. Rouen in Gallia (Letendre). — Sphærellam superfluam habitu æmulans.

448. Phoma sarmentella Sacc. Mich. II. p. 618. — Peritheciis gresser gariis, subcutaneis, oblongis, atris; sporulis tereti-fusoideis, hyalinis, curvulis, obtusis, $5-6 \approx 2-3$; basidiis bacillaribus sporula subduplo longioribus.

Hab. in sarmentis Humuli Lupuli, prope Rouen in Gallia (MALBRANCHE). — Spermogonium, ut videtur, Diaporthes sarmenticiae Sacc.

449. Phoma Durandiana Sacc. et Roum. Reliq. Myc. Libert. Ser. V. 828 n. 67. — Peritheciis gregariis, epidermide nigro-punctata tectis, globoso-depressis obtusis; sporulis oblongo-fusoideis, 2-guttatis, 7-9 ≈ 2-3, deorsum tenuatis; basidiis bacillaribus, fasciculatis, subæquilongis.

Hab. in caule Rumicis, in Gallia et Germania. — Verisimi-

liter Diaporthes maculosæ Sacc. spermogonium.

450. Phoma picea (Pers.) Sacc. Sphæropsis picea (Pers.) Fr. S. v. 829 Sc. p. 419. Fuck. Symb. p. 397. Sphæria picea Pers. Syn. p. 31.

— Elongata, inæqualis, picea; peritheciis sparsis subdepressis, latentibus, astomis, demum pertusis.

Hab. ad caules Atriplicis patulæ, Hyperici perforati, Artemisiæ Verbenæ officinalis, in Germania, Sibiria, Suecia. Descriptionem sporularum non vidi. — Cfr. Diaporthe picea Syll. I. p. 648, cujus species hæc est verisimiliter spermogonium.

451. Phoma atriplicina West. Exs. n. 1233. — Peritheciis ovoideis, 830 membranaceis, nigris, epidermide atrata tectis; ostiolo papillato; sporulis ovoideis, 2-guttulatis, hyalinis, 10 ≈ 5.

Hab. in caulibus Atriplicis hortensis et A. Halimi, in Belgio et Gallia.

452. Phoma Rheea Cooke in Grevillea. — Sparsa, parvula; peritheciis 831 globoso-compressis, tectis; sporulis ellipsoideis, utrinque nucleatis, 10 ≈ 3.

Hab. in caulibus Bæhmeriæ niveæ, Assam in India.

453. Phoma Urticæ Schulz. et Sacc. Schulz Ill. fung. Slav. n. 700. 832

— Peritheciis globulosis depressis, gregariis, caule immersis v. subsuperficialibus, 0,14-0,4 mill. diam., intus pallidis, poro pertusis; sporulis oblongo-teretiusculis, hyalinis, 4-6 ≈ 2.

Hab. in caule Urticæ dioicæ, in Italia, Hungaria, Sibiria. An forma Phomæ herbarum? — Huc verisimiliter spectat Clisosporium Urticæ Bon. Abhandl. p. 140.

454. Phoma Janiphæ (Thum.) Sacc. Mich. II. p. 335. Sphæropsis Ja. 833 niphæ Thum. in Flora 1878, p. 179. — Peritheciis subcarbonaceis, phomæformibus, dense gregariis, numerosissimis, oblongis vel elliptico-orbiculatis, subplanis, pro ratione magnis, nigris; sporulis ellipsoideis, utrinque obtuso-rotundatis, hyalinis, bi-trinucleatis, nucleis majusculis; sterigmatibus brevibus, fasciculatis, hyalinis, filiformibus, 12 ≈ 4-5.

Hab. ad caules emortuos Jatrophæ Janiphæ, in Carolina austr. (RAVENEL). — Forma microspora Roum. F. G. n. 718: sporulis, 5 ≈ 3, ovoideis, 2-guttulatis. In caule Jatrophæ Janiphæ cultæ, Collioure in Gallia (ROUMEGUÈRE).

455. Phoma Ricini (Cooke) Sacc. Sphwropsis Ricini Cooke Grev. 834 XII. p. 23. — Caulicola, sparsa; peritheciis atris, subglobosis, demum depressis, poro pertusis; sporulis elongato-ellipticis, hyalinis, 20 ≈ 5.

Hab. in caule Ricini communis, in Carolina austr. Americæ borealis (RAVENEL).

456. Phoma macropyrena Thum. Contr. Myc. Lusit. n. 336. — Per stritheciis submembranaceis, numerosis, subgregariis, irregulariter orbiculatis et sæpe confluentibus, fere applanatis, cito liberis et epidermide disrumpenti cinctis, opaco-nigris; sporulis numerosis, typicis, cylindrico-ellipsoideis, utrinque rotundatis, simplicibus, cum nucleis maximis, duobus, achrois vel subnebulosis, 8 ≈ 3,5-4.

Hab. ad caules emortuos Ricini communis, in horto botanico, Coimbra in Lusitania (Moller).

457. Phoma Euphorbiæ Sacc. Mich. II. p. 339. — Peritheciis grega- $_{836}$ riis subcutaneis, oblongis, griseo-nigris; sporulis ovato-oblongis, obtusiusculis, $7 \approx 3-3^{1}/_{2}$, 2-guttulatis, basidiis fasciculatis, acicularibus, paulo longioribus suffultis.

Hab. in caulibus Euphorbiæ Characiæ, in Gallia australi.

- Spermogonium Diaporthes Euphorbiae Cooke.

458. Phoma cyclospora Sacc. Mich. I. p. 370. — Peritheciis lenticu- 837 laribus, Subcutaneis distincte et firme parenchymaticis, pertusis; sporulis globulosis, v. quandoque obtuse angulosis, 1-3-pluriguttulatis, 5,5-6,5 μ. diam., hyalinis, basidiis cylindraceis, 5 ≈ 1,5, facillime deciduis fultis.

Hab. in caulibus emortuis Euphorbiæ Cyparissiæ, Co-

negliane in Italia bor., socia *Physalospora minutula* S. et S., cujus forte spermogonium.

459. Phoma microsperma Preuss F. Hoyersw. n. 278. — Perithe-838 ciis tenuibus lentiformibus, pertusis, epidermidi insertis; nucleo pulposo; sporulis minutissimis, rotundatis, albis.

Hab. ad caules herbarum, Hoyerswerda.

460. Phoma fusca Preuss F. Hoyersw. n. 283. — Peritheciis tenui- 839 bus lentiformibus, pertusis subsuperficialibus, luteo-fuscis; nucleo pulposo, albo; sporulis oblongis; medio unistriatis, albis.

Hab. ad caules dejectos herbarum, Hoyerswerda.

461. **Phoma Hysteropsis** Peck. et C. 33 Rep. St. Mus. New York p. 23 840 sub nom. *Ph. hysterellæ*). — Peritheciis immersis, prominulis, subhysterioideis, epidermide tectis, atris, ostiolo papillulato; sporulis ellipsoideis v. subfusoideis, hyalinis, bi-guttulatis, 7-8 u. longis.

Hab. in caulibus emortuis herbarum, Buffalo in America

boreali (G. W. CLINTON).

462. Phoma irregularis (B. et C.) Sacc. Spheropsis irregularis, B. 841 et C. Cub. Fungi n. 563. — Peritheciis epidermide tectis, convexis; sporulis irregularibus, subglobosis vel subclavatis, hyalinis, 7-8 ≈ 5.

Hab. in caulibus herbarum minorum, in Cuba.

463. Phoma hysteriiformis Cooke F. of Texas p. 141. — Peritheciis 842 gregariis, atris, elongato-hysteriiformibus, basi applanatis; sporulis ellipsoideis, hyalinis, binucleatis, 10-12 µ. longis.

Hat. in caule herbarum, Galveston, Texas (RAVENEL).

464. Phoma catenulata Preuss Hoyersw. n. 28. — Peritheciis gre- 843 gariis, semiinnatis, nigris, magni-papillatis, atris, tenuibus, longe seriato-cellulatis, compositis; sporulis continuis, in series subcatenatis, muco involutis, oblongis, nucleum includentibus, albis.

Hab. in stipitibus herbarum majorum, Hoyerswerda. —

«Species dubia, ad Phomam vix pertinens».

465. **Phoma Preussii** Sacc. *Phoma cylindrispora* Preuss Hoyersw. 844 n. 26. — Peritheciis sphæricis, gregariis, immersis, tenuibus cellulatis, atris; sporulis continuis, cylindricis, utrinque rotundatis, albis.

Hab. in stipitibus majoribus herbarum, Hoyerswerda.

466. Phoma rhodosperma Preuss F. Hoyersw. n. 277. — Perithe- 845 ciis tenuibus lentiformibus, papillatis, epidermidi insertis; nucleo pulposo, roseo; sporulis oblongo-cylindricis, utrinque rotundatis albis.

Hab. ad caules herbarum, Hoyerswerda.

467. Phoma caulincola (Schw.) Sacc. Sphæronæma caulincola Schw. 846 Syn. Am. bor. n. 2143. — Peritheciis aggregatis, subdifformibus aut sphæriæmorphis, nigris, rugosis, subcompressis, coronatis globulo nigro, intus albofarctis.

Hab. in caulibus vetustis ignotis, Bethlehem in Amer. bor.

B) Foliicolæ.

468. Phoma tagana Thum. Contr. Myc. Lusit. n. 333. — Perithes 47 ciis minutissimis, epiphyllis, dense gregariis, conico-emersis, atris in macula orbiculari, arescendo-albicante, anguste violaceo-purpureo-cincta; sporulis ellipsoideis vel ovato-ellipticis, utrinque rotundatis, simplicibus, enucleatis, achrois, 5 × 2-2,5.

Hab. in foliis vivis Centaurese taganæ, Pinhal de Marrocos pr. Coimbra in Lusitania (Moller). — Habitus fere Phyllo-

stictæ, sed perithecia Phomæ.

469. Phoma lowana Sacc. Mich. II. p. 574. — Peritheciis in macu-848 lis adustis, subphyllachoroideis, gregariis, innato-prominulis, glo-boso-depressis, ostiolo obsoleto, solidiusculis, nigris; sporulis ovoideis, 10-12 ≈ 8, crasse, 1-3-guttatis, hyalinis; basidiis fasciculatis, acicularibus, 6-7 ≈ 2, hyalinis.

Hab. in foliis subvivis Asteris ptarmiçoidis, Jowa in America boreali ubi legit J. C. Актиик, et Asteris punicei,

White Mout. (FARLOW).

470. Phoma Raui (Peck) Sacc. Sphæropsis Raui Peck Bot. Gaz. 1878, 849 p. 34. — Maculis indefinitis, brunneis; peritheciis copiosis, gregariis, minutis, submembranaceis, nigris, 150-170 μ. diam.; sporulis obovato-oblongis, hyalinis, 16-20 μ. longis.

Hab. in foliis vivis Artemisiæ scopulorum, in America

boreali.

471. Phoma ferruginea Sacc. Cfr. Fuck. Symb. App. II. p. 20 et Sacc. 850 Syll. I. p. 537. — Peritheciis sparsis, subsuperficialibus, ovatoglobosis, submajusculis, atris, apice pilis paucis concoloribus, perithecii longitudine in acumen connatis instructis; sporulis cylindraceis, subrectis, continuis, 6 ≈ 2.

Hab. in foliis marcescentibus Artemisiæ vulgaris, socia Sphærella ferruginea, cujus spermogonium est, in Rhenogovia.—

« An potius Pyrenochæta? ».

472. Phoma Filaginis West., Kickx Fl. Fl. I. p. 442. - Peritheciis 851

sparsis, minutis, copiosis, tectis, dein erumpenti-prominulis, matricis superficiem denigrantibus, globosis, atronitidis; ostiolo papillato; sporulis cylindraceis, rectis, hyalinis, $5 \approx 1.3$.

Hab. in foliis Filaginis arvensis, in Belgio.

473. Phoma sordida Dur. et Mont. Alg. p. 607. Syll. n. 983. — Am- 852 phigena; peritheciis punctiformibus, maculari-confertis, prominulis, fusco-atris opacis, apice poro perforatis; sporulis minutissimis, ovato-oblongis, hyalinis.

Hab. in folis Othonnæ cheirifoliæ, Constantine in Algeria (Durieu).

474. Phoma minutissima Cooke in Grevill. — Maculis irregularibus, 853 nigricantibus; peritheciis semiimmersis, atris, punctiformibus, congestis; sporulis minimis, $4 \approx 2$.

Hab. in foliis Liatris odoratissimæ, Aiken in Carolina Americæ borealis.

475. Phoma Hedysari DR. et M. F. Alg. p. 608. Syll. n. 985. — 854 Epi-raro hypophylla; peritheciis hemisphæricis, atris, siccis, collapso-corrugatis, in maculam atram, fusco-marginatam congregatis; sporulis ovoideis, minutis, hyalinis.

Hab. in foliis Hedysari coronarii, Constantine in Algeria (Durieu).

476. Phoma leptothyrioides Karst. Hedw. 1884, p. 58. — Perithe- $_{855}$ ciis gregariis, subcutaneis, mox nudis, sphæroideo-cupulatis, nitidis, astomis, 2 μ . lat.; sporulis elongatis, utrinque acutatis, curvatis, $7-8 \approx 1,5$.

Hab. in pagina superiore foliorum emortuorum Fragariæ, in Mustiala.

477. Phoma tricolor (Dur. et Mont.) Sacc. Sphæronæma tricolor 856 Dur. et Mont. Fl. Alg. p. 579. — Foliicola, amphigena, sparsa; peritheciis innato-erumpentibus, globoso-ovoideis, atris, opacis, albo-farctis, poro pertusis; globulo fugaci pallide rubro; sporulis cylindricis obtusis, 5 ≈ 2.

Hab. in foliis emortuis Diplotaxis vimineæ, in deserto Tilleri nuncupato in Algeria (Guyon).

478. Phoma effusa Rob. Des. 22 Not. p. 8. — Epi-raro hypophylla, 857 subgregaria, dein effusa; peritheciis punctiformibus, intus albis, epidermide tectis, ½ mill. diam.; ostiolis erumpentibus papillatis, quandoque halone alba cinctis; sporulis oblongis, obtusiusculis, circiter 7-5 ≈ 2,5.

Hab. in foliis siccis Hellebori, in Gallia.

479. Phoma punctiformis Desm. XVII. Not. p. 11. — Peritheciis anshigenis, sepius epiphyllis, numerosis, sparsis, rotundatis, convexis, nigro-fuscis, epidermide tectis, papillatis, dein poro pertusis, ½ mill. diam.; cirris pallide griseis; sporulis oblongis, inæqualibus, 5-7 μ. longis, hyalinis.

Hab. in foliis emortuis Lychnidis chalcedonicæ, in

Gallia.

480. Phoma radiata (Pr.) Sacc. Gerulajacta radiata Preuss Hoyersw. 859 n. 313. — Peritheciis hemisphæricis, socialibus, atris, membranaceis; nucleo albo, mucoso; basidiis concentricis, longis, filiformibus, albis; sporulis ovatis, minutis, albis.

Hab. in foliis Saponariæ, Hoyerswerda.

481. Phoma Massalongi Speg. Rev. myc. IV. p. 79. — Peritheciis spar- 860 sis, minutis, 100-120 µ. diam, punctiformibus, atris, ostiolo impresso pertusis, subcarbonaceo-membranaceis; sporulis elliptico-cylindraceis, sæpius curvulis, 4-5 ≈ 1, 2-3-guttulatis, hyalinis.

Hab. in foliis languidis Cherleriæ sedoidis, Lac d'Oncet

Hautes-Pyrenées et in Alpibus italicis (C. Massalongo).

482. Phoma Violæ West. Exs. n. 525, Kickx Fl. Fl. I. p. 442. — 861 Peritheciis globulosis, levibus, in pustulas subrotundas minutas aggregatis, epidermide laciniata et circumcirca flavicante cinctis; ostiolo papillato, nitidulo, caduco; sporulis ovoideis perexiguis, biguttulatis, hyalinis.

Hab. in foliis Violæ caninæ, in Belgio. — «Sec. Kickx pe-

rithecia in soris Pucciniæ enascuntur: an ergo Darluca?»

483. Phoma Vincæ (Curr.) Sacc. Sphæropsis Vincæ Curr. Simpl. 862 Sphær. p. 333, Kickx Fl. Fl. I. p. 402. — Peritheciis globulosis, erumpentibus, prominulis, nigris, levibus, sparsis, copiosis, poro pertusis; nucleo albido; sporulis oblongo-ellipsoideis, hyalinis, 15–18 v. longis.

Hab. in foliis emortuis Vinca majoris, in Britannia et

Belgio.

484. Phoma Westendorpii Tosq. et West. Not. V. p. 21. — Perithe- 863 ciis copiosis, sparsis, innato-erumpentibus, sphæroideis, tandem collabascentibus, brunneo-rufis, dein nigricantibus; ostiolo papillato; sporulis ovoideo-oblongis, 10 ≈ 3; basidiis tenellis, subramosis.

Hab. in foliis putrescentibus Nupharis lutei, pr. Ypres in Belgio. — Cum Phoma Crepinii (Mont.) comparanda species.

485. Phoma Saxifragarum West. Not. VI. p. 23. Mich. II. p. 617. 864

— Peritheciis gregariis, innato-erumpentibus, punctiformibus, globulosis, pertusis; sporulis oblongis, utrinque obtusiusculis, $6-7 \approx 2^{1}/_{2}$, interdum medio subconstrictis, biguttulatis, hyalinis.

Hab. in foliis languidis præcipue ad nervos Saxifragæ cras-

sifoliæ cultæ in Belgio, Gallia et Germania.

486. Phoma Debeauxii Roum. Rev. Myc. IV. p. 216, t. XXXII f. G. 865— Peritheciis punctiformibus, ¹/₀ mill. diam., copiosis, aggregatis, nigris, in macula subcirculari; sporulis hyalinis, exiguis, ovoideo-oblongis.

Hab. in pag. superiore foliorum languidorum Statices oxy-

lepidis, Oran in Algeria (DEBEAUX).

487. Phoma Letendrei Sacc. Mich. I. p. 526. — Peritheciis epiphyl- 866 lis, sparsis, erumpenti-superficialibus, lenticularibus, majusculis, $\frac{1}{2}$ - $\frac{2}{3}$ mill. diam., atro-nitentibus, subastomis; contextu parenchymatico, atro-fuligineo; sporulis fusoideo-falcatis, utrinque acutis, $7-9 \approx 11\frac{1}{2}$, hyalinis, basidiis filiformibus, furcatis, $18-22 \approx 1$, suffultis.

Hab. in pag. superiore foliorum Lysimachiæ Nummulariæ, pr. Rouen in Gallia (Letendre).

488. Phoma Jasiones Thum. Contr. Myc. Lus. n. 153. — Peritheciis 867 gregariis, minutis, globosis, atris, in caulium partibus aridis vel in pagina inferiore foliorum flavescenti-arida; sporulis fere globosis vel globoso-ovoideis, achrois, enucleatis, 3-4 u. longis.

Hab. in foliis caulibusque subvivis et languidis Jasion es mon-

tanæ, pr. Coimbra Lusitaniæ (Mesnier).

489. Phoma Atomus (Lév.) Auersw. Hedw. 1866, p. 192. Sphæropsis 868 Atomus Lév. Ann. Sc. nat. — Peritheciis hypophyllis v. caulogenis, gregariis puncto minoribus, tectis, globosis, nigris; ostiolis erumpentibus, prominulis; sporulis minutissimis cylindraceis, utrinque obtusis (Sec. Auersw.: sporulis cylindraceis, 12 ≈ 8, utrinque rotundatis, curvulis, biguttatis).

Hab. in foliis caulibusque Rubiæ tinctoriæ et peregrinæ, in Germania et Gallia.

490. Phoma fragilis (Mont.) Sacc. Sphæropsis fragilis Mont. Cent. 869 VI. n. 41, p. 52, et Syll. n. 964. — Epiphylla; peritheciis sparsis, innato-erumpentibus, solitariis aut raro 2-3 aggregatis, globoso-ovatis, atris opacis, cuticula lacerata tectis, tandem basi circumscissa cupulam in foliis nigram linquentibus, albo-nucleatis; sporulis oblongis hyalinis, episporio vitreo fragili, endosporium granulosum dimittente.

Hab. in folio cujusdam Rubiaceæ(!) exoticæ (non in ramis Hederæ ut in Mont. Syll. n. 964).

III. In fructibus et floribus Dicotyledonearum.

491. Phoma leguminum West. Exs. n. 1135. — Peritheciis punctifor-870 mibus sparsis, copiosis, globulosis, nigris, innato-erumpentibus, poro pertusis; nucleo albido, dein sordido; sporulis ovoideis v. oblongo-ovoideis, 5 ≈ 2,5, obtusiusculis, hyalinis; basidiis brevissimis. Hab. in leguminibus Cercidis Siliquastri, Robiniæ, Coluteæ, Gleditschiæ, Laburni, in Belgio, Italia, Gallia

et Austria.
492. Phoma lathyrina Sacc. Mich. II. p. 274, M. V. Cent. XV. — 871
Peritheciis gregariis, velatis, globoso-depressis, atronitidis, ½ mill.
diam.; sporulis oblongis, inæquilateralibus, 9-10 \(\approx 2\frac{1}{2}\), 2-guttulatis,

hyalinis; basidiis

Hab. in leguminibus emortuis Lathyri latifolii, Padova in Ital. bor. — Spermogonium Diaporthes. A Ph. leguminum West. diversa.

493. Phoma Triacanthi Sacc. Sphæropsis Gleditschiæ Cooke in Rav. 872 Fung. Amer. n. 145, nec Thüm. — Subgregaria, erumpens; peritheciis atris, sæpe 2-4 congestis, supra obtusis vel depressis; sporulis arcte ellipticis, hyalinis, 15 ≈ 3.

Hab. in leguminibus Gleditschiæ, Aiken in Carolina (RA-

VENEL).

494. Phoma phyllostictoides Desm. Crypt. de France, Ser. III. n. 694. 873

Hab. in leguminibus aridis sed adhuc pendulis Coluteæ arborescentis, in Gallia, et Gorizia in Italia boreali (Diagnosim comparare non potui).

495. Phoma capsularum Cooke et Harkn. in Grevillea 1881, p. 82. 874
 — Erumpens; peritheciis atris, nitidis, in maculas orbiculare congestis; sporulis ellipticis, hyalinis, continuis, 6,5 ≈ 2,5-2,8.

Hab. in leguminibus Robiniæ, in California.

496. **Phoma clitoricarpa** (Cooke) Sacc. Sphæropsis Clitorewcarpa 875 Cooke in Grevillea. — Sparsa, punctiformis; peritheeiis atris, subglobosis, primo tectis, demum erumpentibus; sporulis late elliptieis, hyalinis, 20-25 ≈ 12-14.

Hab. in leguminibus Citoreæ, Madras (Doct. Bidia).

497. Phoma cassiocarpa (Cooke) Sacc. Spheropsis cassiecarpa Cooke 876 in Grevillea. — Punctiformis, sparsa; peritheciis depressis, atris,

poro pertusis; sporulis cylindricis, utrinque rotundatis, hyalinis, $25-30 \approx 6$.

Hab. in leguminibus Cassiæ Absus et Citoreæ, Madras. 877 498. Phoma Acaciæ Penz. et Sacc. F. Mortol. n. 23, tab. IV. fig. 10.

Peritheciis sparsis vel laxe gregariis, majusculis, subsuperficialibus, 200-240 \(\alpha\). diam.; contextu parenchymatico, atrobrunneo; ostiolo haud prominente; sporulis oblongo-ellipticis, utrinque acutiusculis, biguttulatis, hyalinis, 7-8 \(\alpha\) 2-3; basidiis obsoletis.

Hab. in leguminibus dejectis Acaciæ cyanophyllæ, Mortola in Italia bor.

499. Phoma Cucurbitacearum (Fr.) Sacc. Sphæria Cucurbitacearum 878 Fr. Syst. Myc. II. p. 602. — Gregaria; peritheciis emerso-innatis, hemisphæricis, levibus, nitidis, astomis, gelatina molli; sporulis oblongis 7,5 μ. longis.

Hab. in fructibus vivis et semivivis Cucurbitæ, Momordicæ, Luffæ, in Europa et America. — Nulli maculæ insidet, ceterum Sphæriæ? epymici non absimilis, si a statura minore discesseris.

500. Phoma subvelata Sacc. Mich. I. p. 524. — Peritheciis gregariis, $_{879}$ globoso-lenticularibus, epidermide velatis, $_{1/4}$ mill. diam., late pertusis; contextu minute parenchymatico circa ostiolum densiore, fuligineo; sporulis cylindraceo-oblongis, $_{8-9} \approx 2-2^{1}/_{2}$, medio leniter constrictis sed continuis. $_{2-9}$ uttatis, hyalinis, basidiis filiformibus, curvulis, $_{30} \approx 1$, fultis.

Hab. in epicarpio Cucurbitæ Peponis vel aurantiiformis, Saintes in Gallia (Brunaud).

501. Phoma decorticans De Not. Micr. it. Dec. II. fig. 7. — Peri- 880 theciis gregariis, epidermide dein frustulatim secedente initio velatis, globoso-depressis, papillulatis, atris; sporulis oblongo-fusoideis, $10 \approx 2-2^{1}/_{2}$. 2-guttulatis, hyalinis.

Hab. in cortice fructus Cucumis sativi, in Italia, Germania et Gallia.

502. Phoma mucosa Speg. Mich. II. p. 273. — Peritheciis lenticula- 881 ribus, subcutaneis, 100-120 v. diam., membranaceis, olivaceis; sporulis cylindraceo-ellipticis, granuloso-farctis, hyalinis, 10 ≥ 2.

Hab. in cortice putri fructus Cucurbitæ Melopeponis, in hortis et arvis, Belluno in Italia bor.

503. Phoma Lagenariæ (Thüm.) Sacc. Sphæropsis Lagenariæ Thüm. 882 Contr. Myc. Lusit. n. 553. — Peritheciis gregariis, lentiformibus, applanatis, primo tectis, demum liberatis, fusco-atris, submagnis;

sporulis cylindraceis, utrinque rotundato-subacutatis, continuis, achrois, endoplasmate grumuloso, 16-18 = 4, basidiis brevibus, fasciculatis, flexuosis, hyalinis fultis.

Hab. in epicarpio putrido Lagenariæ vulgaris, in horto botanico Coimbra Lusitaniæ (Moller).

504. Phoma lagenicola Sacc. Phoma Lagenariæ Thüm. Contr. Myc. 883 Lus. n. 567. — Peritheciis numerosis, minutis, punctiformibus, immersis, nigris in macula magna, irregulari, ochraceo-ferruginea; sporulis ellipticis, utrinque rotundato-acutatis, continuis, enucleatis, 4-5,5 \(\preceq 2.5 \), hyalinis.

Hab. in epicarpio arido Lagenariæ vulgaris, in horto botanico, Coimbra in Lusitania (MOLLER).

505. Phoma cucurbitalis B. et C. North Amer. Fungi n. 379. — 884 Sparsa, deplanata, nitida; sporulis breviter oblongis, binucleatis, minutis, 5-7 μ. long.

Hab. in seminibus Cucurbitæ Citrulli (Water Melon) in Amer. bor.

506. Phoma Citrulli B. et C. North Amer. Fungi n. 378. — Depla-885 nata superficialis; sporulis fusiformibus, bi-trinucleatis, 20 p. longis; basidiis sporula brevioribus.

Hab. in seminibus Cucurbitæ Citrulli, in Carolina infer. Americæ bor.

507. Phoma seminalis (B. et C.) Sacc. Spheropsis seminalis B. et C. 886 North Amer. Fungi n. 415. — Peritheeiis sparsis, brunneis, applanatis; sporulis oblongis, inæquilateralibus, 15 \times 5-7, granulosis.

Hab. in seminibus Citrulli, in Carolina infer.

508. Phoma uvicola B. et C. North Amer. Fungi n. 382. — Irregu- 887 laris subcutaneo-erumpens et tunc cuticulà anguste cincta; sporulis oblongis, 7-8 μ. longis.

Hab. in baccis Vitis, in Carolina infer. America bor.

509. Phoma uvarum (B. et C.) Sacc. Sphærospis Uvarum B. et C. 888 North Amer. Fungi n. 417. — Peritheciis innumeris, collabascentibus, cuticula membranacea tectis, hyalinis, centro nigris; sporulis breviter cymbæformibus leniterve curvis, 7-10 = 5.

Hab. in baccis Vitis (Scuppernong), in Carolina infer.

510. Phoma baccæ Catt. in Pir. F. Vitigni p. 56. — Peritheciis glosses bosis, atris, maculis brunneis circumdatis, ostiolo minuto pertusis, subcutaneo-erumpentibus nucleo-albido; sporulis ovoideis, utrinque rotundatis, 1-3-nucleatis, hyalinis, 12 μ. longis; basidiis clavatis, radiantibus, apice 2-3, sterigmata sporophora gerentibus.

Hab. in baccis submaturis, in Etruria (Targioni-Tozzeti). —

« An Dendrophoma? ».

511. Phoma strobilaria (Preuss) Sacc. Gerulajacia strobilina Pr. 890 Hoyersw. n. 314. — Peritheciis membranaceis, erumpentibus, globosis, atris, dein pertusis; nucleo albo; basidiis clavæformibus; sporulis ovatis albis.

Hab. ad conos dejectos Pini, Hoyerswerda.

512. Phoma strobiligena Desm. 17 Not. p. 8. — Peritheciis minutis, 891 subsuperficialibus, ${}^{1}/_{5}-{}^{1}/_{4}$ mill. diam., sæpe gregariis, globosis, nigris, astomis, subrugulosis, collabascendo concavis, intus albis; sporulis minutissimis ovoideis vel ovoideo-oblongis, $6-8 \approx 3$, hyalinis, 2-guttulatis.

Hab. in squamis strobilorum Cedri Libani, Thujæ, Pinorum, in Gallia, Italia et Belgio. — F. microspora Sacc. Reliq. Lib. V. n. 69: sporulis minutis, $4 \approx 2$, biguttulatis. In strobilis

Pini silvestris, in Italia, Gallia et Germania.

513. Phoma Pinastri (Oud.) Sacc. Coniothyrium Pinastri Oud. Aanv. 892 1876-77, p. 8. — Peritheciis membranaceis, subtilissimis, atris, contextu (sub microscopio) atroviolaceo, minuto, celluloso, irregulariter dehiscentibus, sparsis cæspitosisve, subcompressis; sporulis achromis, mucilagine conjunctis, minimis, 3 ≈ 1,5.

Hab. ad squamas strobilorum maturorum Pini Pinastri,

in Neerlandia.

514. Phoma occulta Sacc. Cfr. Fuck. Symb. App. III. p. 23. — Pe- 893 ritheciis sub epidermide in stromate tenuissimo nigro limitato nidulantibus, pustulatis, demum subrimose dehiscentibus; nucleo griseo; sporulis oblongo-ovatis, biguttatis, 7 \times 3.

Hab. in squamis conorum Abietis, in Rhenogovia. — Sper-

mogonium Diaporthes occultæ.

515. Phoma conorum Sacc. Mich. II. p. 615. — Peritheciis gregariis s94 innato-erumpentibus, globoso-depressis, subastomis; nucleo griseo; sporulis fusoideis, rectis $10-14 \approx 2-23/4$, 1-guttulatis, hyalinis; basidiis uncinatis, $24 \approx 1$, suffultis.

Hab. in squamis conorum Abietis, in Gallia et Germania.

- Spermogonium Diaporthes conorum.

516. Phoma arctica (B. et C.) Sacc. Sphæropsis arctica B. et C. 895 F. N. Pac. n. 124. — Peritheciis erumpentibus, elongato-prominulis, patellæformibus vel subcompressis, hyalinis, fusiformibus.

Hab. in conis Pini Ajanensis, Kamtschatka.

517. Phoma lineolata Desm. Exs. Ser. II. n. 58 et 19 Not. p. 3. — 896

Peritheciis innato-erumpentibus, nigris, exiguis, in series breves connato-digestis, poro pertusis, epidermide demum fissa tectis; nucleo albo; sporulis ovoideis vel oblongis, denique cirrose expulsis, 5-7 μ . longis; basidiis brevibus.

Hab. in squamis conorum Laricis europææ, in Gallia et Belgio.

518. Phoma galbulorum Sacc. et Therry Mich. II. p. 617. — Peri- 897 theciis sparsis, innato-erumpentibus, globuloso-depressis, minutis; ostiolo obtuso; sporulis oblongo-subfusoideis, 7-7,5 \(\pi\)2,5-3, hyalinis; basidiis sporula subduplo longioribus, bacillaribus, fasciculatis.

Hab. in fructibus (galbulis) Juniperi Oxycedri, Ruoms

(Ardèche) in Gallia (THERRY).

519. Phoma entomogenea Sacc. et Penz. Mich. II. p. 615. — Peri- 898 theciis sparsis, erumpentibus, globulosis, nigris, obtusis, ½ mill. diam.; sporulis ellipsoideo-oblongis, rectiusculis, 7-8 = 3, 2-guttatis, hyalinis; basidiis subnullis.

Hab. in amentis Abietis ab insectis monstrose transforma-

tis, Le Sapey (Isère) in Gallia (THERRY).

520. Phoma nitens Sacc., Rouss et Bomm. Miscell. mycol. n. 8 (sub 899 nomine nitidulæ). — Peritheciis gregariis, globoso-hemisphæricis, atris, nitidissimis, subsuperficialibus, ¹/6 mill. diam., vix papillatis; sporulis bacillaribus, rectis, utrinque obtusiusculis, 16-20 ≈ 1,8-2, hyalinis; basidiis perexiguis.

Hab. in glandibus quercinis prope Bruxelles in Belgio. —

Affinis Phomæ cylindrosporæ, sed perithecia diversa.

521. Phoma glandicola (Desm.) Lev. Ann. Sc. Nat. 1846, p. 281, Spo-900 ronema glandicola Desm. — Peritheciis gregariis, erumpentibus, subglobosis, levibus, nigris, epidermide lacerata cinctis; ostiolo obsoleto; sporulis oblongis, $6-7 \approx 1^3/_4-2$, hyalinis, basidiis simplicibus obclavatis, $20 \approx 2$, e strato proligero fuligineo oriundis, suffultis.

Hab. in glandibus quercinis, in Gallia, Germania, Italia, Britannia et Lusitania. — *cupulæ Sacc. Mich. II. p. 272: peritheciis globoso-papillatis emergentibus; sporulis oblongis, $6-8 \approx 2^{1}/_{2}-3$, 2-guttulatis, hyalinis, basidiis filiformibus quandoque furcatis triplo longioribus suffultis. In cupulis Quercus Ilicis, Padova. — *Coryli-putaminis Sacc. Mich. II. p. 272: sporulis $6 \approx 2^{1}/_{2}$, basidiis $20 \approx 1$ suffultis. In putamine Coryli, Conegliano in Italia bor.

522. Phoma cœnanthicola Thum. Pom. p. 106. — Peritheciis pro ra- 901 tione magnis, numerosissimis, densissime gregariis, hemisphæricis, induratis, fructum fere totum ambientibus et obtegentibus, opaco-



nigris; sporulis numerosis, cylindrico-fusiformibus, subarcuatis v. fere rectis, utrinque leniter acutatis, binucleatis, hyalinis, $7 \approx 3$.

Hab. in comanthio submaturo exsiccato, sed non putrido Ficus caricæ. Parenzo in Istria (Bolle).

523. Phoma endogena Speg. Mich. I. p. 482. — Peritheciis in mem- 902 brana cotyledones obvolvente nidulantibus, griseis, quandoque subtomentellis, lenticulari-sphæroideis, tenue-membranaceis; contextu parenchymatico-celluloso, 150-200 μ. d.; sporulis hyalinis, granuloso-nubiloso-farctis, ovoideis vel ellipticis, 6-8 ≈ 2-3, eguttulatis.

Hab. in seminibus maturis Castaneæ vescæ cortice integro vestitis, adhuc vegetis, Conegliano in Italia bor. et Lyon in Gallia. In utroque loco (mirum!) socia adest Mycogone cervina Link.

524. Phoma brunneotincta B. et C. (Citatur in Rep. on the St. Mus. 903 New York).

Hab. in interiore parte Castanearum coctarum, Buffalo in Amer. bor. (CLINTON). — Diagnosis desideratur.

525. Phoma Amenti (C. et H.) Sacc. Sphæropsis Amenti Cooke et 904 Hark. in Grevillea 1881, p. 82. — Peritheciis minimis, membranaceis, sparsis, convexis, brunneis; sporulis ellipticis, hyalinis, continuis, $10 \approx 5$.

Hab. in amentis Alni, in America bor.

526. Phoma nyssocarpa Cooke in Grevillea. — Sparsa; peritheciis 905 epidermide tectis, vix prominulis; sporulis ellipticis, hyalinis, 7 ≈ 3.

Hab. in fructibus Nyssæ, Aiken Amer. bor. (RAVENEL).

527. Phoma Iuglandis (Preuss) Sacc. Nemaspora Juglandis Preuss 906 Hoyersw. n. 149. — Pustulis hemisphæricis gregariis; peritheciis ostiolo centrali pertusis; nucleo pulposo candido, in cirros tenellos, longos, tortos, subdiaphanos pallidos eructato; sporulis fusiformibus, utrinque rotundatis, minutis, albis; basidiis filiformibus.

Hab. in nucibus immaturis nigrescentibus Juglandium, prope Hoyerswerda.

528. Phoma pomorum Thum. Fungi Pom. p. 105. — Peritheciis sub- 907 depresso-globosis, sparsis, paucis, semiemergentibus, atris in macula plus minusve orbiculata, depresso-applanata, arescendo nivea, indurata, margine distincto, angusto, lineariformi, purpureo-nigro; sporulis paucis, ellipsoideo-globulosis, nubiloso-cinerescentibus, subdiaphanis, enucleatis, 5-7 μ. diam.

Hab. in fructibus maturis vivis Piri Mali, Bayreuth in Bayaria.

529. Phoma malorum (Berk.) Sacc. Sphæropsis Malorum Berk. Outl. 908

p. 316. — Peritheciis globosis vel subglobosis, cuticulà nigrificata tectis, ostiolis erumpentibus longiuscule papillatis; stromate nigricante; sporulis ellipsoideis, tunicatis, granulosis, chlorinis, 30 µ. longis.

Hab. in fructibus Mali humistratis vel adhuc pendulis, in Bri-

tannia et America bor. — «An demum Diplodia?».

530. Phoma Aceris-Negundinis Arcang. Erb. Critt. It. Ser. II. n. 1379. 909 - Peritheciis sparsis; sporulis ellipticis, utroque fine bi-triguttulatis, $8 \approx 3$.

- Hab. in fructibus exsiccatis Aceris Negundinis, in horto

botanico pisano (ARCANGELI).

531. Phoma samaricola Sacc. Spheropsis Samarorum Mont. Cent. 910 VI. n. 89, in Ann. 3, XII. p. 307 et Syll. n. 965. - Peritheciis innatis cuticula tectis, globoso-depressis, atris, albo-farctis; sporulis oblongis, hyalinis, granulosis, primitus sat longe pedicellatis, 20- $30 \approx 7 - 8$.

Hab. in fructu (non in alis) Aceris Negundinis, in horto botanico massiliensi in Gallia (Castagne), et Coimbra in Lusitania (Moller).

532. Phoma samararum Desm. Crypt. Fr. ed. II. n. 148. — Perithe- 911 ciis exiguis, convexis, nigris, epidermide dein fissa tectis, pertusis; poro subinde rimoso epidermide dealbata cincto; sporulis minutis, oblongo-ellipsoideis, 2-guttulatis, 7 \u03c4. longis.

Hab. in samaris dejectis Fraxini excelsioris, rarius Aceris et Paliuri, in Italia, Gallia, Belgio, Germania et Bri-

tannia.

533. Phoma pterophila (Nits.) Fuck. Symb. myc. p. 377, Sphæria 912 pterophila Nits. - Peritheciis majusculis, gregariis globoso-depressis, pertusis atris; sporulis oblongis, 8 = 3, biguttatis, hyalinis, basidiis filiformibus suffultis.

Hab. in samaris dejectis Fraxini excelsioris, in Germania, Italia et Gallia. — A Phoma samararum Desm. peritheciis multo majoribus imprimis differt. Diaporthes samaricolæ Plow. verisimiliter uti status spermogonicus habenda est.

534. Phoma siliquæ Sacc. Mich. II. p. 272. — Peritheciis gregariis, 913 innato-erumpentibus, globoso-conoideis, 1/6 mill. diam., nigris; sporulis minutis, oblongo-ovoideis, 4 = 1, hyalinis.

Hab. in siliquis Cheiranthi Cheiri, Possagno in Italia bor. (A. Rossi).

535. Phoma siliquarum Sacc. et Roum. Reliq. Lib. V. n. 80. - Pe- 914

ritheciis laxe gregariis, tectis, globoso-depressis, papillulatis, 1/5 mill. d., atris; sporulis oblongis, $8 \approx 3$; basidiis bacillaribus, paulo brevioribus.

Hab. in siliquis Brassicæ, sæpius in earumdem areis dealbatis, in Germania et Gallia.

536. Phoma Siliquastrum Desm. XVII. Not. p. 8. — Maculis oblongis $_{915}$ olivaceo-brunneis; peritheciis numerosis, minutissimis, approximatis, fusco-nigris, poro apertis; sporulis perexiguis, oblongis, 2-guttatis, 5 μ . longis.

Hab. in siliquis pedunculisque Brassicæ, in Gallia.

537. Phoma morphæa Sacc. Mich. II. p. 273. — Peritheciis grega- 916 riis, subcutaneo-erumpentibus, globoso-depressis, 150 \(\rho\). diam., poro pertusis; contextu minute parenchymatico fuligineo; sporulis oblongis, utrinque rotundatis, 7-8 \(\times 2\frac{1}{2}\), inæquilateralibus, hyalinis, 2-guttulatis, basidiis fasciculatis, deorsum crassiusculis, 18-20 \(\times 2-3\), suffultis.

Hab. in stigmate fructus Papaveris som niferi, Conegliano in Italia boreali (Spegazzini).

538. Phoma Bellynckii West. Exs. n. 630. — Peritheciis innatis dein, 917 epidermide secedente, superficialibus, punctiformibus, sparsis, globulosis, membranaceis, atro-fuscis; nucleo albo; sporulis ovoideo-oblongis, 2-guttulatis.

Hab. in squamis involucri floralis Cynaræ Scolymi et C.

Cardunculi, in Belgio et Gallia.

539. Phoma Liriodendri West. Exs. n. 967, Lamb. Myc. Belg. III. 918 p. 83 (sub *Ceuthospora Liriodendri*). — Peritheciis minutis, nitidis, atris, sparsis, initio epidermide atrata tectis, dein erumpentiliberis; ostiolo papillato, plus v. minus elongato; nucleo albo; sporulis ovoideo-oblongis, 2-guttatis, hyalinis.

Hab. in fructibus Liriodendri Tulipiferæ, Namur in Belgio (Вельческ). — Diagnosis allata nullo modo cum Ceuthospora congruit. Ph. Liriodendri West. ramicola in Thum. Fung. Litor.

n. 170 (Gorizia) forte speciem alienam sistit.

540. Phoma eriophora B. et Br. Ann. N. H. n. 812. — Peritheciis 919 globosis, liberis initio pallidis, denique nigricantibus, deorsum albo v. flavido-tomentellis, e mycelio simili emergentibus; contextu rubescente; sporulis copiosissimis, curvulis, hyalinis, 6 μ. longis.

Hab. in fructibus Æsculi Hippocastani, in Britannia.

541. Phoma platensis Speg. Arg. Pug. II. p. 34. — Peritheciis glo- 920 boso-lenticularibus, tectis sed prominulis, atris, ostiolo papillato,



perforante donatis, 1/3-1/2 \u03c4. diam.; contextu dense parenchymatico, fuligineo-atro; sporulis ellipticis, utrinque acutiuscule rotundatis, biguttulatis, hyalinis, 5-8 = 2-3, in sterigmatibus filiformibus, hyalinis, 15-70 ≈ 1. acrogenis.

Hab. in fructibus exsiccatis vetustis Solani elæagnifolii,

in pratis circa Chacarita in America meridionali.

542. Phoma carpophila (Lev.) Sacc. Sphæropsis carpophila Lev. Ann. 921 Sc. Nat. 1845, p. 62. — Erumpens; peritheciis sparsis subconicis, basi applanatis, epidermide fissa tectis; ostiolis papillatis; sporulis ellipsoideis, continuis, hyalinis.

Hab. ad fructus Lauri Ravensaræ («?»), in Madagascar.

543. Phoma Leburtonii West. Bull. Ac. Belg. t. XIX. n. 9. - Pe- 922 ritheciis sparsis, exiguis, punctiformibus, atro-nitidis, immersis; ostiolo papillato; nucleo albido; sporulis minutissimis, ovoideis, hyalinis, 2-guttulatis.

Hab. in seminibus Althææ roseæ. Louvain in Belgio (Le-

BURTON).

544. Phoma folliculorum (Lev.) Sacc. Sphæropsis folliculorum Lev. 923 Ann. Sc. Nat. p. 63. — Erumpens; peritheciis gregariis, subtectis, glabris, nigris, conicis, circa ostiolum papillatum depressis, macula albicante insidentibus; sporulis ovoideis, continuis, hyalinis.

Hab. ad folliculos Asclepiadis curassavicæ (herb. DE-

CAISNE).

545. Phoma Vincetoxici West. Exs. n. 1134, Mich. I. p. 272. — Pe- 924 ritheciis gregariis atro-brunneis, epidermide diaphana tectis erumpentibusque, exiguis, poro pertusis; sporulis ovoideis, hyalinis, biguttulatis, $7,5-8 \approx 3-4$.

Hab. in folliculis ramulisque Cynanchi Vincetoxici, in

Belgio et Italia boreali.

546. Phoma deusta Fuck. Symb. myc. p. 377. Sphæronæma Rhi- 925 nanthi Lib. Exs. p. 263. Spharia Rhinanthi Sommerf.? - Peritheciis tectis, in macula atro-fusca, minutis, ostiolis truncatis, prominulis; sporulis in sporophororum filiformium, simplicium apicibus, cylindraceis, rectis, simplicibus, $10 \approx 2$, hyalinis.

Hab. in bracteis, capsulis, caulibusque Rhinanthi minoris

et R. cristæ-galli, in Germania et Belgio.

547. Phoma Catalpæ (Thum.) Sacc. Spheeropsis Catalpæ Thum. F. 926 Austr. n. 80. — Peritheciis sparsis, ellipticis, conico-emersis, pustulæformibus, mediis, fusco-atris; sporulis ellipsoideis vel longe

ovatis, utrinque rotundatis, simplicibus, interdum medio subconstrictis, achrois, $8-12 \approx 4$.

Hab. in capsulis emortuis Catalpæ syringifoliæ, Vindobonæ in Austria (Тиймем).

548. Phoma carpogena Sacc. et Roum. Mich. II. p. 339. — Perithe- 927 ciis sparsis majusculis, $\frac{1}{2}$ mill. d., globoso-depressis, atronitidulis, initio velatis; sporulis fusoideis, $6-8 \approx 2\frac{1}{2}$, biguttulatis, hyalinis.

Hab. in interiore capsularum Catalpæ syringifoliæ, pr. Toulouse in Gallia. — Forte Diaporthes spissæ Sacc. et Speg.

spermcgonium.

549. Phoma dalmatica (Thum.) Sacc. Phyllosticia dalmatica Thum. 928 Pilze d. Œlb. p. 40. — Peritheciis solitariis sparsis, sub epidermide nidulantibus subimmersisque, punctiformibus, majusculis, nigris, in macula suborbiculari fusca, pruinosa, marginata sitis; sporulis clavato-fusoideis, apice subacutatis, basi incrassato-rotundatis, continuis, rectis v. interdum curvulis, hyalinis, nubilosis, 22 \$6-7.

Hab, in fructibus Oleæ europææ, in Austria.

550. Phoma Olivarum Thüm. Pilze d. Œlb. p. 40. — Peritheciis den-929 sis submagnis, hemisphæricis, emergentibus, subinde confluentibus, nigris; sporulis breve cylindraceo-ellipsoideis, utrinque rotundatis, grosse 2-nucleatis, 3-5 ≈ 1,5-2, hyalinis.

Hab. in fructibus Oleæ europææ, in Austria.

551. Phoma Passifloræ Penz. et Sacc. F. Mortol. n. 24. tav. IV. fig. 930 11. — Peritheciis laxe congregatis, minutis, aterrimis, hypodermicis, dein prorumpentibus, globosis, duris, carbonaceis; sporulis ellipticis, acutiusculis, biguttulatis, hyalinis, 7-8 = 3-3,5; basidiis dense cæspitosis. simplicibus, integris, hyalinis, 11-12 = 2-2,5.

Hab. in pedunculis exsiccatis Passiflorae hybridæ, Mor-

tola in Ital. bor.

552. **Phoma fallax** Berk. in Fl. New Zeal. p. 193. — Peritheciis sub- 931 globosis fuscis supra translucidis; sporulis oblongis, subcymbiformibus, hyalinis, 14-15 u. longis.

Hab. in fructu Rhipogoni parviflori, Bay of Islands Novæ Zelandiæ (Hooker).

IV. In Monocotyledoneis.

553. Phoma cocoina Cooke in Grevillea, t. 86, fig. 4. — Sparsa; 932 peritheciis erumpentibus, demum detectis, globosis, atris; sporulis minutis, arcte ellipticis, hyalinis, 8 μ. longis.

Hab. in petiolis vetustis Cocos nuciferæ, Demerara in India.

554. Phoma Palmarum (Cooke) Sacc. Sphæropsis palmarum Cooke 933 in Grevillea t. 86, f. 1. — Erumpens; peritheciis subglobosis, applanatis, demum superne detectis, atris; sporulis ellipticis, hyalinis, intus granulosis, 20 ≈ 12.

Hab. in petiolis nervisque Cocos nuciferæ, Demerara in India.

555. Phoma striolata Speg. Revue myc. II. p. 161. — Peritheciis 934 subglobosis, minutis, $100-110~\mu$. diam., stromate nigro lineariter elongato subepidermico immersis; sporulis copiosis, hyalinis, 1-2- guttulatis, $5-7 \approx 3-4$.

Hab. in spatha dejecta putrescente Cocos nuciferæ, S. Vincent insula Africæ.

556. Phoma maculata (Cooke et Harkn.) Sacc. Sphæropsis macula-935 ta Cooke et Harkn. in Grevillea n. 64. — Maculis atris, effusis, difformibus; peritheciis gregariis, magnis, globosis, rugulosis, erumpentibus; sporulis ellipticis, profusis, hyalinis, 10 ≈ 5.

Hab. in foliis v. petiolis v. stipitibus Palmarum, in California. 557. Phoma Pritchardiæ Cooke et Harkn. in Grevillea n. 64. — Sub- 936 gregaria; peritheciis semiimmersis primo tectis, atris, nitidis, poro pertusis; sporulis cylindrico-ellipticis, utrinque obtusis, continuis, binucleatis, hyalinis, 14 = 3.

Hab. in foliis Pritchardiæ, in California.

558. Phoma Desmonci Rabenh. Hedw. 78, p. 60. — Peritheciis.....; 937 sporulis cylindraceis, rectis curvatisve, utroque polo obtusis, 5 ≈ 1.5-2.

Hab. in foliis Desmonci melanochæti, in India or.

559. Phoma Sabaleos Ces. Hedw. 1882, p. 10. — Erumpens, subhemi- 938 sphærica, membranacea, contextu minute celluloso; sporulis ellipticis, acutiusculis, pallidis, $6 \approx 4$.

Hab. in lamina exsiccata foliorum Sabal Adansonii, in horto botanico neapolitano.

560. Phoma Pandani (Lév.) Sacc. Sphæropsis Pandani Lév. Ann. 939 Sc. Nat. 1846, p. 293. — Peritheciis confertis, erumpentibus, subglobosis, intus albis, receptaculo effuso, nigro, tenui insidentibus, ostiolis subobsoletis pertusis; nucleo albo; sporulis magnis ovatis continuis vel bilocularibus.

Hab. ad fructus Pandanorum (Gaudichaud in herb. Mus. Par.). — Si sporulæ vere biloculares, a *Phoma* nimis differret. 561. **Phoma alliicola**: Sacc. et Roum. Reliq. Lib. Ser. IV. n. 79. — 940



Peritheciis gregariis, epidermide secedente superficialibus, globulosis, aterrimis, exiguis, vix 130 μ . diam., obtusis, vertice pertusis; sporulis oblongis, biguttulatis, $5 \approx 2$, hyalinis; basidiis obsoletis.

Hab. in caule Alliorum, Malmedy (LIBERT).

562. Phoma Agapanthi (Thum.) Sacc. Sphæropsis Agapanthi Thum. 941 Contr. Myc. Lusit. n. 319. — Peritheciis sparsis, emersis, sublineariformibus, primo epidermide tectis, demum liberis, subelevatis, aterrimis; sporulis ellipsoideis, utrinque subacutiusculis, continuis, griseis, 6-10 ≈ 4.

Hab. ad scapos emortuos Agapanthi umbellati, in horto

botanico, Coimbra Lusitaniæ (Moller).

563. Phoma Ornithogali Thum. in Flora. — Peritheciis dense gre-942 gariis, colonias irregulares, magnas formans, subparvis, semiimmersis, liberis, globoso-depressis, fusco-nitidis; sporulis numerosis, ellipticis vel cylindrico-ovoideis, vertice rotundato-dilatatis, apice angustatis et subobtuso-acutatulis, simplicibus, binucleatis, achrois, 4-5 ≈ 1,5.

Hab. ad caules emortuos Ornithogali altissimi, pr. Somerset-East, Promont. bonæ spei (Mac-Owan).

564. Phoma Liliacearum West. 5. Not. p. 20. — Peritheciis innatis, 943 ovoideo-oblongis, secundum fibras dispositis seriatisque; ostiolo poriformi; sporulis ovoideis, hyalinis, 2-guttulatis, 7,5-1-2.

Hab. in pedunculis Hemerocallidis fulvæ, in Belgio.

565. Phoma crocophila (Mont.) Sacc. Perisporium crocophilum Mont. 944
Syll. n. 902 et Étude microgr. du Tacon (Maladie du safran), in
Mém. Soc. de Biologie, tom. I. 1849, p. 68, et interpr. angl., in
Journ. of the Hortic. Soc., 1849, cum icone. — Peritheciis minutis, ovoideo-globosis, atro-nitentibus, apice poro pertusis, e basi fibras irradiantes emittentibus; nucleo primitus celluloso, cellulis subconcatenatis; sporulis globosis minimis.

Hab. in bulbis Croci sativi, morbo nomine Tacon nuncupato vitiatis, in Gallia.

566. Phoma macrothecia Thum. in Flora 1876, p. 571. — Perithe-945 ciis amphigenis, sed præcipue epiphyllis, exsertis tuberculiformibus, orbicularibus, epidermide expallescenti tectis, postremo liberis, atris; sporulis numerosissimis, longo-ovoideis, utrinque leniter acutatis, binucleatis, interdum concatenatis (?), 10-12 = 3,5-4, hyalinis.

Hab. ad folia viva Morææ grandifloræ, in summo monte Boschberg pr. Somerset-East, Promont. bonæ spei (Mac-Owan).

567. Phoma elongata (B. et C.) Sacc. Sphæropsis elongata B. et C. 946

North Am. Fungi n. 412 (bis). — Peritheciis minutis, nitidis, sparsis; ostiolis breve emergentibus; sporulis oblongis, subfusiformibus, enucleatis, $20 \approx 3.5-4$; sporophoris sursum attenuatis.

Hab. in caulibus Gladioli, Alabama in Amer. bor. (Peters). 947
568. Phoma Gladioli (Cooke) Sacc. Sphæropsis Gladioli Cooke Grev.
XII. p. 23. — Foliicola, gregaria, in maculis pallidis sita; peritheciis minimis, subglobosis, atris; sporulis elongato-ellipsoideis, hvalinis, 20 = 5.

Hab. in foliis Gladioli, in Carolina austr. Americæ borealis (RAVENEL).

569. Phoma microscopica B. et Br. Ann. N. H. n. 401. — Perithe- 948 ciis subglobosis, levibus, sparsis, epidermide ad ostiola nigrificatâ velatis, poro pertusis, in areis decoloratis sitis; sporulis oblongo-ellipsoideis, magnitudine satis variis, subinde biguttatis, hyalinis.

Hab. in caule emortuo Potamogetonis, in Britannia.

570. Phoma filamentosa (Cooke) Sacc. Sphæropsis filamentosa Cooke 949 Grev. XII. p. 22. — Peritheciis sparsis, punctiformibus, subglobosis, atris, cuticula hyalina tectis; sporulis cylindraceis, utrinque obtusis, hyalinis, 18-20 ≈ 3-4.

Hab. in caule Yuccæ filamentosæ, in Carolina Americæ borealis (Ravenel).

571. Phoma gloriosa Sacc. Mich. II. p. 274. — Peritheciis amphi. 950 genis, subcutaneis, hinc inde gregariis lineaque nigra tortuosa circumdatis, globoso-depressis; sporulis oblongo-ellipsoideis, 2-guttulatis, hyalinis, 8 = 3, basidiis bacillaribus, 15 = 2, curvulis suffultis.

Hab. in foliis putrescentibus Yuccæ gloriosæ, Selva et Crespano in Italia boreali. — Spermogonium Diaporthes (A. Rossi).

572. Phoma Yuccæ Cooke in Grevillea. — Sparsa, tecta; peritheciis 951 prominulis, papillatis; sporulis ellipticis, utrinque nucleatis, hyalinis, 9 = 3.

Hab. in foliis Yuccæ, Aiken in Carolina Amer. bor.

573. Phoma Dasylirii Ces. Hedw. 82, p. 9. Rabh. FE. 2655. — Pe-952 ritheciis hyalinis tenuissimis, lana viridula primitus obductis (?); sporulis olivaceis, irregulariter lato-ellipticis, 7 ≈ 6.

Hab. in foliis Dasylirii juncei, in horto botanico neapolitano Ital. austr.

574. Phoma æquivoca (Ces.) Sacc. Sphæropsis æquivoca Ces. Hedw. 953 1882, p. 9 et Fungi Eur. n. 2655. — Peritheciis laxe cellulosis; sporulis elongatis obscurissime (?) 1-septatis, irregulariter linguiformibus, 24 μ. longis, hyalinis.

Hab. in foliis Dasylirii juncei, in horto botanico neapolitano (CESATI).

575. Phoma brunneola (B. et C.) Sacc. Sphæropsis brunneola B. et 954 C. North Am. F. n. 416. — Peritheciis epidermide brunneola tectis, hysteriiformibus; sporulis breviter subfusiformibus, subinde apice crassioribus, 10 μ. longis.

Hab. in ramis Smilacis rotundifoliæ, New England in.

America boreali (Sprague).

576. Phoma smilacina (Peck) Sacc. Spheropsis smilacina Peck 33 955 Rep. St. Mus. 24. — Maculis orbicularibus, 4-6 mill. diam., arescendo dealbatis, fusco-marginatis; peritheciis epiphyllis, subhemisphæricis v. depressis, nigris, sæpe concentrice dispositis; sporulis oblongis v. subfusoideis, hyalinis, 20-30 ≈ 7.5.

Hab. in foliis subvivis Smilacis rotundifoliæ, Wading

River in America boreali.

577. Phoma atomoides Penz. et Sacc. F. Mortol. n. 17, tav. IV. 956 fig. 5 (sub nom. atomospora, sed non Cooke). — Peritheciis dense congregatis, minusculis, epidermide tectis, dein prorumpentibus, sphæroideis, papillatis, aterrimis, 180-220 μ. diam.; contextu parenchymatico; sporulis minutissimis, 0,7-1 ≈ 0,3-0,4, cylindraceis, utrinque rotundatis, medio haud constrictis, hyalinis, eguttulatis; basidiis obsoletis.

Hab. in ramulis inflorescentiæ Agaves sp. Mortola in Italia boreali.

578. Phoma brevipes Penz. et Sacc. F. Mortol. n. 18, tav. IV. fig. 6. 957

— Peritheciis laxe congregatis, hypodermicis, solo ostiolo papilloso prominente, globosis, haud depressis, nigerrimis, contextu duro, parenchymatico; sporulis ellipsoideis, utrinque acutiusculis, hyalinis, eguttulatis, plasmate granuloso farctis, 13-16 ≈ 7-8, basidiis brevissimis, papilliformibus, hyalinis, 2-3, suffultis.

Hab. sub epidermide scapi floralis Agaves sp. Mortola in Italia boreali.

579. Phoma Debeauxiana Sacc. Glocosporium Debeauxii Roum. Rev. 958 Myc. V. p. 28. — Peritheciis globosis, nigris, aggregatis, in maculis subcircularibus, confluentibus, albidis, dein fuscis, margine elevato purpureo; sporulis elongatis, rectis, utrinque obtusis, 12 = 2.

Hab. in foliis Aloes spicatæ, Oran in Algeria (Debeaux).

- « Cum perithecia describantur, species Phomæ videtur ».

580. Phoma Fourcroyæ Thüm. Contr. Myc. Lus. n. 332. — Peri- 959 theciis numerosis, epiphyllis, dense gregariis, conico-elevatis, par-



vulis, aterrimis, ostiolatis, primo epidermide papyraceo-membranacea, scariosa tectis, demum liberis; sporulis numerosissimis, ellipsoideis vel ovatis, simplicibus, enucleatis vel cum nucleo unico minimo, achrois, $3.5-5 \approx 1.5-2$.

Hab. ad folia emortua Fourcroyæ giganteæ, Coimbra Lusitaniæ in horto botanico (Moller).

581. Phoma Polygonati Thum. Pilzfi. Sib. n. 603. — Peritheciis nu- 960 merosissimis, densissime gregariis, lenticulari-disciformibus, ovalibus, applanatis, obscure fuscis vel fere nigris, submagnis; sporulis numerosis, bacillari-cylindricis, utrinque rotundato-obtusis, simplicibus, enucleatis, achrois, 4-6 ≈ 2-2,5.

Hab, in caulibus emortuis Polygonati vulgaris, prope Petroschilowo in Sibiria asiatica.

582. Phoma Convallariæ West. Bull. Ac. Belg. XIX. n. 9. — Peri- 961 theciis subglobosis vel oblongis, innatis, sparsis, minutis, atris, papillulatis; nucleo albo; sporulis ovoideis, minutis, biguttulatis.

Hab. in foliis Polygonati multiflori, in Belgio. — Spermogonium Diaporthes. — *Ph. polygonatea Sacc. cfr. Mich. II. p. 617: peritheciis oblongis, intus subgriseis; sporulis oblongis, utrinque rotundatis, 9-10 ≈ 3, hyalinis. In caule emortuo Polygonati vulgaris, Rouen in Gallia.

583. Phoma Solierii (Mont.) Sacc. Mich. I. p. 525, Ascospora Solierii 962 Mont. Syll. n. 1001. — Peritheciis punctiformibus, globosis, depressis, epidermide atrata tectis, ostiolo late umbilicato prominulo; sporulis cylindraceo-oblongis, utrinque rotundatis, 2-guttatis vel nubilosis, 28-30 \(\preceq 6, hyalinis (20 \(\preceq 7 \) et 4-guttatis sec. Mont.).

Hab. in caule Asphodeli racemosi et Asph. albi, in Gallia.

584. Phoma Asphodeli Sacc. Mich. I. p. 521. — Stromate longitu- 963 dinaliter effuso, nigricante; peritheciis gregariis, innato-erumpentibus, globulosis, $100-120~\mu$. diam., pertusis; sporulis ovato-oblongis, $8 \approx 3$, 2-guttatis, hyalinis; basidis acicularibus sesquilongioribus.

Hab. in caule putrescente Asphodeli, Rouen in Gallia (LETENDRE). — Spermogonium Diaporthes.

585. Phoma asphodelina Thum. Contr. Myc. Lusit. I. n. 156. — Pe- 964 ritheciis sparsis, pro ratione mediis, subimmersis, conicis, atris, obsolete angustissime fusco-cinctis; sporulis ellipsoideis, utrinque rotundatis, enucleatis, hyalinis, 4-6 \(\times 2-3.5. \)

Hab. in capsulis aridis adhuc pendulis prope Penedo da Saudade in Lusitania (MESNIER). - A Ph. Asphodeli Sacc., caulicola. satis differre videtur.

586. Phoma Cordylines (Thum.) Sacc. Spheropsis Cordylines Thum. 965 Contr. F. Lusit. n. 554. — Peritheciis numerosis, dense gregariis, hypophyllis, diu tectis pustulæformibus, dein liberis et apice poro centrali pertusis, aterrimis; sporulis longe ellipticis, utrinque rotundatis, nucleolatis vel endoplasmate grumuloso, continuis, hyalinis. 13-15 = 6-8, basidiis fasciculatis, brevibus, subrectis. hvalinis fultis.

Hab. in foliis emortuis Cordylines australis, in horto botanico Coimbra Lusitaniæ (Moller).

587. Phoma Asparagi Sacc. Mich. I. p. 257. — Peritheciis gregariis, 966 epidermide velatis, globoso-depressis; sporulis oblongis, 7-8 = 3, 2-guttulatis, hyalinis; basidiis nullis visis.

Hab. in caulibus putrescentibus Asparagi officinalis, in Italia bor., Gallia et Sibiria. - Spermogonium Diaporthes Asparagi Nits.

588. Phoma lanceolata (C. et E.) Sacc. Sphæropsis lanceolata C. et E. 967 in Grevillea. - Sparsa, epidermide nigrificata tecta; peritheciis brunneis, submembranaceis, poro pertusis; sporulis lanceolatis, hyalinis, rectis, granulis repletis, $30 \approx 7$.

Hab. in caule Asparagi, New Jersey in Amer. bor. (Ellis). 589. Phoma Rusci West. Bull. Ac. Belg. Ser. II. t. 7. n. 5. — Pe- 968 ritheciis amphigenis, sparsis, nigris, innatis; ostiolo papillato epidermidem elevante et perforante; sporulis ovoideo-elongatis, hya-

Hab. in foliis (cladodiis) Rusci aculeati, in Belgio et Lusitania.

590. Phoma Hippoglossi (Mont.) Sacc. Sphæropsis Hippoglossi Mont. 969 Syll. n. 966. — Peritheciis in macula pallida nunc indeterminata, nunc rufo-cinctà gregariis, epidermide velatis, globoso-depressis, ¹/₁₀ mill. diam., poro albo pertusis; sporulis globoso-ovoideis, 10-12 ≥ 8-11, guttulis minutis farctis, hyalinis, initio brevissime stipitellatis.

Hab. in cladodiis languidis Rusci Hippoglossi et R. aculeati, in Gallia et Italia.

591. Phoma Strelitziæ Thum. Contr. Myc. Lus. I. p. 22. — Peritheciis 970 epiphyllis, dense gregariis, fere lineariformi-dispositis in areis maximis, irregularibus, cinereis, primo epidermide tectis, demum ostiolo

minutissimo conico pertusis, atris, globosis, parvis; sporulis minutis, ellipticis vel globosis, $1.5~\mu$. diam., achrois.

Hab. ad folia emortua Strelitzæ augustæ, prope Lisboa in Lusitania.

592. Phoma Musarum Cooke Grev. XII. pag. 22. — Minuta, sparsa, 971 punctiformis; peritheciis subglobosis, atris, epidermide tenui tectis; sporulis ellipsoideo-elongatis, 10 ≈ 3.

Hab. in petiolis Musarum, Georgia in Amer. bor. (RAVENEL).
593. Phoma Musæ (Cooke) Sacc. Sphæropsis? Musarum Cooke in 972 Grevillea. — Peritheciis semiimmersis, atris, nitidis, subconicis, in maculis parvulis congestis; sporulis subglobosis vel ovatis vel ellipticis, hyalinis, 12-22 ≈ 10-14; basidiis nullis visis.

Hab. in Musa paradisiaca, Belgaum in India orientali. 594. Phoma Oncidil Speg. F. Arg. Pug. V. n. 277. — Maculis nul- 973 lis; peritheciis parvis, lenticularibus, 90-100 μ. diam., epidermide tectis eaque adnatis, tenui-membranaceis, contextu parenchymatico, olivaceo; sporulis ellipticis vel navicularibus, utrinque obtusissime rotundatis ac l-guttulatis, 4 ≈ 2, hyalinis.

Hab. ad scapos aridos Oncidii speciei cujusdam in truncis vetustis, in silvis de Corrientes Argentinæ.

595. Phoma Orchidearum Ces. Myc. Born. — Peritheciis epidermide 974 obtectis, microscopicis, in greges minutos compositis, membranaceis, depresso-globosis.

Hab. ad folia Orchideæ majoris, Ceylon Peradenya.

596. Phoma corrientina Speg. F. Arg. Pug. IV. n. 275. — Maculis 975 latissimis, indeterminatis, arescenti-albis; peritheciis hinc inde sparsis, globosis, $150-180~\mu$. diam., immersis, atris, crassiuscule membranaceis, coriacellis, contextu indistincto, opaco, fuligineo; sterigmatibus cylindraceis, erectis, $15 \approx 1,5-2$, dense constipatis, hyalinis; sporulis acrogenis, ellipticis, sæpius inæquilateralibus, utrinque plus minusve acutatis ac 1-guttulatis, $9-10 \approx 3$, hyalinis.

Hab. in foliis emortuis putrescentibus Oncidii speciei cujusdam ad truncos vetustos, in silvis de Corrientes Argentinæ.

597. Phoma Surinamensis (B. et C.) Sacc. Sphæropsis surinamensis 976 B. et C. Exot. F. Schwein. p. 280. — Sparsa nigra; peritheciis depresso-globosis; sporulis hyalinis, elliptico-oblongis, majoribus, 24-28 µ. long.

Hab. in petiolis foliorum Caladii cujusdam, Surinam.

598. Phoma Typharum Sacc. Pleosporæ (Leptosphæriæ) Typharum 977 Pycnidium Fuck. Symb. p. 137. — Peritheciis minutis, subliberis,

globoso-conicis; ostiolis perithecium subæquantibus; sporulis minutissimis, cylindraceis, curvatis, hyalinis.

Hab. in foliis putrescentibus Typhæ latifoliæ, in Rhenogovia.

599. **Phoma lacustris** Karst. Hedw. 1884, p. 58. — Peritheciis sub- 978 gregariis, innatis, sphæroideis, atris, punctiformibus; sporulis oblongatis vel elongatis, rectis, hyalinis, 7-12 ≈ 2,5-4.

Hab. in calamis emortuis Scirpi lacustris, prope Mustiala Fenniæ.

600. Phoma Caricis (Fr.) Sacc. Sphæropsis Caricis (Fr.) Kickx Flandr. 979 I. p. 403. — Peritheciis nigris, globulosis, astomis, membranaceis, seriato-aggregatis, subinde confluentibus, innatis, epidermide nigrificata tectis, dein erumpentibus; sporulis cylindraceo-oblongis, obtusis, hyalinis.

Hab. in foliis Caricis stellulatæ, in Belgio.

601. Phoma caricina (Thüm.) Sacc. Sphæropsis caricina Thum. 980 Contr. Myc. Lus. n. 324. — Peritheciis numerosis, gregariis, hemisphærico-punctiformibus, primo epidermide tectis, dein poro pertusis, glauco-atris; sporulis magnis, ellipticis, utrinque rotundatis, interdum nucleatis, continuis, episporio subcrasso, achrois, 20-22 = 10; basidiis brevissimis.

Hab. ad culmos emortuos Caricis maximæ, Fonte do Castanheiro prope Coimbra in Lusitania (P. G. MESNIER).

602. Phoma Junci Preuss Hoyersw. n. 281. — Tecta, dein rimosa, 981 seriato-erumpens, subrotunda, tuberculosa; peritheciis seriatis, nigro-farctis, stromate nigricante primo immersis; sporulis fusiformibus, utrinque subacutis cum guttulis oleosis.

Hab. in culmis exsiccatis Junci conglomerati, prope Hoverswerda.

603. Phoma neglecta Desm. 22 Not. pag. 8. — Peritheciis paucis, 982 sparsis, ovatis, prominentibus, nigris, nitidis, intus albis, poro pertusis, epidermide integra aut tandem fissa tectis; sporulis oblongis, $5 \approx 1.7$.

Hab. in pedunculis et squamis exsiccatis Junci maritimi, in Gallia.

604. Phoma arundinacea (Berk.) Sacc. Sphæropsis arundinacea Berk. 983 Outl. p. 316. — Peritheciis uni-biseriatis, subconnatis; ostiolo obsoleto; sporulis oblongis, 8-10 ≈ 3-4, 2-guttatis, hyalinis.

Hab. in culmis Phragmitis, in Britannia, Italia et Gallia. 605. Phoma occulta Desm. Exs. n. 1868, Kickx Fl. Fl. I. p. 442. — 984



Peritheciis perexiguis, sparsis, tectis, dein erumpentibus et subsuperficialibus, griseo-fuscis; nucleo albo; ostiolo papillato vel conico-cylindraceo; sporulis ovoideis, copiosis.

Hab. in culmo putri interiore Phragmitis communis, in Belgio (Westendorp) et Gallia (Desmazierii).

606. Phoma rimosa West. Not. III. p. 13, Kickx Fl. Fl. I. p. 436. 985 — Peritheciis ovoideis, convexis, plus minusve compressis, pluriseriatis (seriebus approximatis plagulas ovales formantibus), minutis, nigris, astomis, innatis, epidermide nigricante velatis; nucleo albido; sporulis subcylindraceis, angustis, subcurvis, utrinque obsolete 1-guttatis, hyalinis.

Hab. in vaginis siccis Phragmitis communis, prope Gand in Belgio. — Verisimiliter sistit spermogonium Scirrhice rimosce.

607. Phoma vaginæ Sacc. Mich. II. p. 617 (sub nomine Sphæropsis 986 vaginæ Rabh. quæ vero Hendersonia). — Peritheciis laxe gregariis, tectis, globoso-depressis, ¼ mill. diam.; ostiolo vix erumpente; sporulis oblongo-ellipsoideis, 10-15 ≈ 2, hyalinis; basidiis bacillaribus sporula sublongioribus.

Hab. in vaginis emortuis Phragmitis communis, Lyon

in Gallia (THERRY).

608. Phoma donacella (Thum.) Sacc., Coniothyrium donacinum 987 Thum. Contr. Myc. Lusit. n. 340. — Peritheciis aut solitariis aut confluenti-aggregatis, punctiformibus, emersis, atris, minutis; sporulis númerosissimis, simplicibus, ellipsoideis, enucleatis, achrois, $3-4 \approx 1.5$.

Hab. in culmis emortuis Donacis arundinaceæ, prope Coimbra in Lusitania (Moller).

609. Phoma arundinella Sacc. — Peritheciis globulosis, immersis, 988 atris; sporulis minutissimis oblongis, 3 ≈ 1, hyalinis, basidiis cylindraceis crassiusculis suffultis.

Hab. in culmis Arundinis Donacis, socia Eulypa arundinacea, Sacc., cujus forte spermogonium. Cfr. Syll. I. p. 169.

610 Phoma culmicola Schw. Syn. Amer. bor. n. 2170. — Sparsa, 989 eleganter erumpens, globosa aut elliptico-elevata, fere semilineam alta, extus atra, rugosa, convexa; ore majusculo, albocincto, aperto; disco pallide flavo excavato; massa interna grumosa; juniori ætate epidermide tecta.

Hab. in culmis Andropogonis scoparii, Bethlehem in America bor.

611. Phoma viridispora Cooke in Grevillea. — Sparsa, cuticula ni- 990

grificata tecta; peritheciis applanatis; sporulis cylindrico-ellipticis, rectis, viridibus, $10 \approx 4$.

Hab. ad Phormium, Banks' Peninsula, Dunedin in Nova Zelandia. — «An Coniothyrium?».

612. Phoma Phormii (Cooke) Sacc. Coniothyrium Phormium Cooke 991 in Grevillea. — Gregaria, minima, semiimmersa, elongato-fissa; sporulis hyalinis, ovalibus, 4 ≈ 3.

Hab. in foliis Phormii tenacis, in horto botanico Bruxel-

lensi Belgii.

613. Phoma pelliculosa B. et Br. F. of Ceyl. n. 801. — Grisea, e 502 matrice secernibilis; peritheciis minutissimis epidermidem elevantibus; ostiolo amplo; sporulis angustis, quam basidio triplo brevioribus, 2,5-3 μ. longis.

Hab. in culmo Bambusæ, Peradeniya in Ceylon.

614. Phoma linearis (Thum.) Sacc. Coniothyrium lineare Thum. 993 Fungi Amer. trig. Spec. n. 12. — Cæspitibus linearibus, secundum nervos dispositis, atris, inquinantibus; peritheciis, $200-250~\mu$. d., globosis, fusco-lutescentibus, episporio levi, granuloso; sporulis ellipsoideis, utrinque rotundatis, sine nucleo, hyalinis, interdum leniter acutatis, $6 \approx 3-4$.

Hab. in culmis emortuis Gynerii argentei, Aiken in Carolina austr. (RAVENEL).

615. Phoma Sacchari (Cooke) Sacc. Sphæropsis Sacchari Cooke in 994 Grev. XII. p. 23. — Sparsa vel in plagas irregulares consociata; peritheciis atris, subglobosis, erumpentibus; sporulis lanceolatis, hyalinis, 32-42 ≈ 12.

Hab. in culmis Sacchari officinarum, Darien Georgia in Amer. bor. (RAVENEL).

616. Phoma Ammophilæ Dur. et Mont. Flor. Alg. p. 564, Mont. Syll. 905 n. 901. — Emergens, globosa, minutissima, myriadea, atra, maculæ cinereæ insidens; sporulis.... — Species dubia.

Hab. in foliis Ammophilæ arenariæ, La Calle in Algeria (Durieu),

617. Phoma graminella Sacc. Mich. I. p. 127. — Peritheciis grega- 996 riis, subcutaneis, globoso-depressis, ½-1/5 mill. diam., atris, ostiolo obtusiusculo brevi perforante; contextu perithecii distincte laxiuscule celluloso, fuligineo; sporulis ovato-fusoideis, utrinque acutiusculis, rectis, 15-18 = 4, hyalinis.

Hab. in foliis Calamagrostidis, ad Helgoland (P. MAGNUS).

— Species a Ph. biocellata Mont., Ph. Graminis West. et Sphæropside arundinacea Berk. certe distinguenda.

618. Phoma nitida Rob. Des. 22 Not. p. 8. — Epiphylla, sparsa, mi- 997 nuta, nitida; peritheciis hemisphæricis, intus albis, epidermide demum longitudinaliter fissa obtectis; ostiolo papillæformi; sporulis subovoideis, 5 μ. longis.

Hab. in foliis exsiccatis Calamagrostidis arenariæ, in Gallia.

619. Phoma Graminis West. in Kickx Fl. Flandr. I. p. 441. — Pe- 998 ritheciis globosis vel angulosis, nigris, seriatim dispositis pustulasque elongatas formantibus, rugulosis, atro-griseis; ostiolo papillato; nucleo albo; sporulis ovoideis, 1-2-guttulatis, hyalinis, madore in cirrum expulsis.

Hab. in culmo Poæ cujusdam, in Belgio.

620. Phoma Hennebergii J. Kühn Hedw. 1877, p. 121. — Peritheciis 999 sparsis, primo tectis, dein apertis, rotundatis, vertice plerumque concavis, 100 μ. diam., atris; nucleo albo; sporulis cylindraceis curvulis vel rectis, 14-18 ≈ 2-2,5, hyalinis.

Hab. in valvis, paleis et aristis Tritici vulgaris æstivi, in Germania.

621. Phoma lophiostomoides Sacc. Mich. II. p. 338. — Peritheciis 1000 seriatim et parallele gregariis, compressis, minutis, nigris, ostiolo subrimoso; sporulis teretiusculis, utrinque rotundatis, 8 \u2228 1, 2-guttulatis, hyalinis, bacillaribus, 18-24 \u22222, parce et breve ramulosis suffultis.

Hab. in culmis Tritici vel Secalis, Rouen in Gallia (LE-TENDRE).

622. Phoma biocellata Mont. Syll. n. 973. — Minutissima, innato- 1001 erumpens; peritheciis orbicularibus, depressis, solitariis aut lineariseriatis, atris, apice poro pertusis; sporulis oblongis, utroque fine guttulam foventibus.

Hab. in culmis Graminum, Chile (GAY).

623. Phoma hysterioidea B. et Br. F. of Ceyl. n. 803. — Elliptica, 1002 nigra, epidermide cincta, opaca; sporulis oblongis minimis.

Hab. in graminibus Ceylon. — Forte spermogonium Phylla-choræ graminis.

V. In Acotyledoneis.

624. Phoma aquilina Sacc. et Penz. Mich. II. p. 615. — Peritheciis 1003 gregariis, subcutaneis, sed parum prominulis, e globoso compres-

siusculis, vix papillatis, $\frac{1}{6}$ mill. diam.; sporulis subellipsoideis, $3.6-4\approx2-2.5$, eguttulatis, hyalinis; basidiis subnullis.

 $\it Hab.$ in caule submortuo Pteridis aquilinæ, Lyon in Gallia (Therry).

625. Phoma Equiseti Desm. Exs. n. 183. — Peritheciis sparsis, glo-1004 bulosis, punctiformibus, epidermide dealbata tectis, poro pertusis; nucleo fusco; sporulis ovoideis, 2-guttulatis, hyalinis.

Hab. in caulibus exsiccatis Equiseti limosi, arvensis, in Gallia, Belgio et Helvetia. — *Phoma Equiseti* Lév. in Ann. H. N. 1846, p. 282 eadem species videtur.

626. Phoma epitricha (B. et Br.) Sacc. Sphæropsis epitricha B. et Br. 1005 Ann. H. N. n. 422. — Peritheciis globosis, subiculo furcato-ramoso cinereo insidentibus; sporulis oblongis, diametro transverso triplo longioribus.

Hab. in caule emortuo Equiseti palustris, Wilts in Britannia. — Filamenta mycelii septata, furcata, apice obtusa, vere peculiaria.

627. Phoma stelligera Mont. Syll. n. 986 et Mém. sur la multiplicat. 1006 des Charagnes par division, in Ann., 3. XVIII. p. 74, t. 2, f. 13 et 14. — Peritheciis depressis, minutis, dimidiatis, atris; sporulis oblongis, guttulam in utroque fine foventibus.

Hab. ad bulbos peponomorphos vetustos, quibus nodi Charæ (Nitellæ) stelligeræ cinguntur, apud Chabreville (D.ª Dufrénor) prope Burdigalam (RAMEY).

VI. In insectis, charta, stercore.

628. Phoma alicola Speg. Arg. Pug. II. p. 34. — Peritheciis sparsis, $_{1007}$ lenticularibus, immersis, $_{80-100}$ $_{\mu}$. diam., contextu laxe pareachymatico, fuligineo, ostiolo impresso pertusis, atris; sporulis ellipsoideis vel ovatis sæpe inæquilateralibus, utrinque obtusis, $_{5-8} \approx 3$, granuloso-farctis, hyalinis.

Hab. in alis putrescentibus Fidicinæ (Cicadæ) bonariensis, cerca de Barracas des Sur in Argentina.

629. Phoma chartarum B. et C. North Amer. Fungi n. 390. — Spar- 1008 sa, e subiculo tenero byssoideo oriunda; peritheciis sparsis; sporulis minimis, 3 μ . longis, subinde in cirrum expulsis.

Hab. in charta alba, Alabama in Amer. bor. (BEAUMONT).

630. Phoma charticola Speg. F. Arg. Pug. n. 99. — Peritheciis sub- 1009 superficialibus, lenticularibus, minutis, 80-90 μ. diam., atris, ostiolo impresso perforatis, membranaceis; contextu parenchymatico, fuli-



Sphærioideæ, Hyalosporæ, Phoma.

169

gineo; sporulis ellipticis, $4-5\approx 2-2.5$, utrinque obtusiusculis et 1-guttulatis, hyalinis.

Hab. in charta stercorata putrescente in nemorosis de la Re-

coleta in Argentina.

631. Phoma fimicola (West.) Sacc. Sphæropsis fimicola West. in 1010 Kickx Fl. Fl. I. p. 403. — Peritheciis perexiguis, punctiformibus, sphæricis, nigris, nitidulis, initio immersis, dein superficialibus, ostiolo papillato; sporulis ovatis, hyalinis, majusculis, 20-30 = 13-14.

Hab. in fimo vaccino, in Belgio. — Teste auctore pycnidium

sistit Coprolepæ fimeti.

632. Phoma stercoraria P. et C. Rep. on St. Mus. N. Y. — Peritheciis minutis, membranaceis, sparsis, nigris; sporulis majusculis, ellipsoideis, $12-15~\mu$. longis.

Hab. in stercore anserino, Portage in Amer. bor. (CLINTON).

VII. Species nomine tantum mihi notæ.

633. Phoma Andrachnes Lev. in Desm. Voy. 110, t. VI. f. 3. — In 1012 Tauria.

634. **Phoma Belangerii** West. Bull. Brux. 1852, III. p. 117. — In ₁₀₁₃ Belgio.

635. Phoma clandestina West. Bull. Brux. 1852, III. p. 117. — In 1014 Belgio.

636. Phoma Dahliæ Berk. in Sm. Fl. Br. V. p. 284. — In Britannia. 1015

637. **Phoma Laricis** Lév. in Demid. Voy. p. 111. t. 4, f. 5. — In ₁₀₁₆ Tauria.

638. Phoma Podagrariæ West. Bull. Ac. Brux. 1852, III. p. 116. 1017

— In Ægopodio Podagraria in Belgio.

APOSPHÆRIA Berk. Outl. p. 315 emend. Sacc. Mich. II. p. 4 (Etym. apo ab, et Sphæria). — Perithecia globulosa, papillata, subcarbonacea. superficialia, vel basi ligno vel cortice duriore insculpta. Sporulæ ovoideæ vel oblongæ vel subsphæricæ, continuæ, nyalinæ. Basidia nulla vel exigua. — Est Phoma superficialis.

1. Aposphæria epileuca (Berk.) Sacc. *Phoma epileuca* Berk. Hook. 1018 Journ. 1853, p. 40, t. III. f. 2. — Maculis indeterminatis, albis; peritheciis elongatis; sporulis hyalinis, majusculis, oblongis, enucleatis, 3-4 u. longis, subinde uno apice crassioribus.

Hab. in assere pineo dealbato, in Britannia et Sibiria.

Aposphæria pinea Sacc. Mich. I. p. 126 (Phoma). — Peritheciis dense gregariis, superficialibus, epixylis, globulosis vix papillatis,



80-150 μ. diam., aterrimis; sporulis cylindraceis, utrinque acutatis. curvulis, 5 = 1, hyalinis.

Hab. in libro putri Pini silvestris, in Germania et Gallia. - Sphæria pinea Fuck. Symb. p. 112, nec Desm. (quæ Diplodia) est quoque Phomæ species: sporulis cylindraceis, curvatis, hyalinis, incolitque folia Pini silvestris in Germania.

3. Aposphæria? hemisphærica (A. S.) Sacc. Sphæronæma hemisphæ- 1020 ricum (A. S.) Fr. S. M. II. p. 539, Sphæria hemisphærica A. S. Lus. p. 51, t. 8, f. 8. — Peritheciis hemisphæricis, subellipsoideis. levibus, nigris, globulo albo sublivescente; sporulis in globulum sordidum expulsis, filiformibus.

Hab. in ligno indurato fagineo et pineo, in Germania, Suecia et Belgio. - Sparsa, ligno l'avigato innata, depressa, aqualis, coronata globulo regulari mox deciduo, tum poro vel rimula hemiellipsoidea aperta. — An novi generis typus?

4. Aposphæria hysterella Sacc. Sphæronæma subtile B. et C. North 1021 Amer. Fungi n. 407. — Hysteriiformis; sporulis minutis, oblongoellipticis, 6-7 \u03c4. longis, episporio hyalino ornatis.

Hab. in ligno pineo, Massachussetts Amer. bor. (Russell).

5. Anosphæria mediella Karst. Hedw. 1884, pag. 59. — Peritheciis 1022 erumpenti-superficialibus, cæspitose aggregatis vel solitariis, difformibus, rotundatis vel angulosis vel depressiusculis, vix papillatis, demum ore lato apertis, contextu carbonaceo, atris 5 \u03c4. lat.; sporulis ovalibus, hyalinis, $4-6 \approx 2-3$.

Hab. in cortice Pini silvestris, in Fennia saltem australi passim.

6. Aposphæria collabascens Schulz. et Sacc. Micr. Slav. n. 53 (Ph. collabens), Schulz. Ill. Fung. Slav. n. 707. — Peritheciis superficialibus, globoso-depressis, 160-250 µ. diam., ostiolo impresso pertusis, atris, denique collabascendo exquisite scutellatis; sporulis oblongis, perexiguis, hyalinis, 2,5-3 µ. longis; basidiis nullis vel obsoletis.

Hab. in ligno ramorum emortuorum Piri communis, prope Vinkovce. - Phomæ labenti Sacc. affinis videtur.

7. Aposphæria clypeata (C. et Ell.) Sacc. Phoma clypeata C. et Ell. 1024 Grev. V. p. 33, t. 75, fig. 10. — Peritheciis applanatis, papillatis, nigrocinctis, subsparsis, superficialibus; sporulis minutis, ellipticis, hyalinis, 6 µ. longis.

Hab. in ligno putri, Maine New Jersey Amer. bor. (BLAKE).

8. Aposphæria Brunaudiana (Thum.) Sacc. Phoma Brunaudiana 1025

Sphærioideæ, Hyalosporæ, Aposphæria.

171

Thum, in Reuve Mycol. - Peritheciis numerosis, lignicolis, lenticulari-subdisciformibus, emersis vel exsertis, aterrimis; sporulis numerosis, oblongis, utrinque rotundatis, enucleatis, achrois, $4-5 \approx 2-3$.

Hab. in ligno vetusto Fraxini excelsioris, Saintes Gal-

liæ (Brunaud).

9. Aposphæria bicuspidata (Berk.) Sacc. Phoma bicuspidata Berk. 1026 Ann. N. H. n. 740. - Peritheciis elongatis, nigris, minutis, secundum fibras dispositis, initio sparsis, subinde confluentibus; sporulis breve fusoideis, 2-guttulatis, 7-8 μ. longis, utrinque papillulatis, hyalinis; basidiis brevibus.

Hab. in asseribus pineis, in Britannia.

10. Aposphæria allantella Sacc. et Roum. Reliq. Liber. Ser. IV. n. 1027 83. — Peritheciis gregariis, subsuperficialibus, globoso-depressis, vix papillatis, 1/5 mill. diam.; sporulis allantoideis, hyalinis, 5-6 =1,5; basidiis obsoletis.

Hab. in ligno putri quercino, in Gallia et Germania.

11. Aposphæria subtilis (Fr.) Sacc. Sphæronæma subtile Fr. in Myc. 1028 Heft. II, p. 57. — Peritheciis globosis, regularibus, levibus, atris; globulo fugaci, exiguo, albido.

Hab. ad ligna mucida Sorbi, Salicis, Coryli etc. in Suecia et Germania. — Sparsa minuta (sed magnitudine varia), subni-

tens, levis, forma globosa; apex obtusus, poro' pertusus.

12. Aposphæria agminalis Sacc. Mich. II. p. 379 (Phoma). — Peri- 1029 theciis hinc inde dense et late gregariis, subsuperficialibus, punctiformibus, globoso-conicis, 90-100 p. diam., pertusis, atro-nitidulis; sporulis ellipsoideis, utrinque obtusis, $3 \approx 2$, biguttulatis, hyalinis.

Hab. in ligno indurato Æsculi Hippocastani, Padova Ital. bor. (Bizzozero). — Ab A. Pulviscula Sacc. differt sporulis ellipsoideis, ab A. fuscidula Sacc. sporulis pariter ellipsoideis et hyali-

nis. — Zignoellæ cujusdam probabile spermogonium.

13. Aposphæria Calathiscus (Corda) Sacc. Sphæronæma calathiscus 1030 Corda Icon. IV. p. 40, f. 115. — Peritheciis gregariis, minutissimis, epixylis, convexis, rotundis, membranaceis, fuscis, nitidis; ostiolo centrali obtuse papillato; sporulis oblongis, hyalinis, 6-7 \u03bc. long.

Hab. in asseribus putrescentibus Fagi, Reichenberg Bohemiæ. 14. Aposphæria Rhododendri (Shw.) Sacc. Sphæronæma Rhododen- 1031 dri Schw. Syn. Am. bor. n. 2141. — Peritheciis sparsis, complanatis, subinnatis, ovatis, striatis, nigris; globulo albo deciduo, tum quasi perforata apparent perithecia, ceterum minuta.



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- Hab. in ligno decorticato Rhododendri, Bethlehem Americæ borealis.
- 15. Aposphæria mollis (Lév.) Sacc. Sphæropsis mollis Lév. Ann. Sc. 1032 Nat. 1846, p. 295. — Peritheciis gregariis, adnatis, nigris, nudis, hemisphæricis, demum collapsis; ostiolis obsoletis; sporulis ovatooblongis, obtusis, hyalinis.

Hab. ad ramos Spartii juncei, Marseille Galliæ.

16. Aposphæria difformis Sacc. Mich. I. p. 125 (Phoma). — Peri- 1033 theciis gregariis, erumpenti-superficialibus, epixylis, e globoso conoideis difformibusque, 1/4-1/3 mill. diam., varie breve papillatis, aterrimis, subcarbonaceis; sporulis ellipsoideis, $2^{t}/_{2}-3 \approx 2$, hyalinis in basidiis fasciculatis, crassiuscule filiformibus, acrogenis.

Hab. in ligno putri Tiliæ? Berolini (P. Magnus).

17. Aposphæria stenostoma (Penz.) Sacc. Penz. Mich. II. p. 432. — 1034 Peritheciis laxe gregariis, ligno semiimmersis, atro-brunneis, sphæroideis, vix mammillatis, 110-120 μ. diam.; ostiolo minimo, circulari; sporulis minutis, $2,5-3,5 \approx 1,5-2$, hyalinis, eguttulatis; basidiis fasciculatis, cylindricis, simplicibus, continuis, $10-12 \approx 1-1.5$.

Hab. in ligno vetusto decorticato Citri Aurantii, in frigidariis horti patavini.

18. Aposphæria sepulta (Penz.) Sacc. Phoma sepulta Penz. Mich. 1035 II. p. 431. — Peritheciis sparsis, ligno immersis, minutissimis, 72-90 μ . d., brunneo-atris; ostiolo obsoleto; contextu parenchymatico; sporulis numerosissimis, exiguis, subsphæricis, 3-3,5 μ . d., hyalinis, biguttulatis; basidiis filiformibus, simplicibus, $10-14 \approx 2-2.5$.

Hab. in ligno decorticato Citri Aurantii, in frigidariis horti botanici patavini, rarius.

19. Aposphæria stigmospora Sacc. et Lamb. Misc. Mycol. p. 19. — 1036 Peritheciis subsuperficialibus, hinc inde dense gregariis, globosis, obtuse breve papillatis, atris, 1/4 mill. diam.; sporulis copiosissimis, globosis, perexiguis 1-1,5 v. diam., subhyalinis; basidiis acicularibus, $7-9 \approx 1.3$, fasciculatis, hyalinis.

Hab. in ramis corticatis emortuis Callunæ vulgaris, Verviers Belgii (LAMBOTTE).

20. Aposphæria fibrisequa Sacc. Aposphæria fibricola Pass. et Beltr. 1037 F. Sic. n. 22, nec Berk. — Peritheciis superficialibus, pusillis, subglobosis, atris, in collum cylindricum iis subæquilongum vertice protractis; sporulis minutissimis, globosis.

Hab. ad fibras ligneas denudatas Opuntiæ Ficus Indicæ, Licata Siciliæ.

21. Aposphæria Artemisiæ (Corda) Sacc. Sphæronæma Artemisiæ 1038 Corda Ic. IV. p. 39, f. 114. — Peritheciis gregariis, atris, subglobosis, glabris, subnitidis, superficialibus; ostiolo minuto, subacuto; globulo minuto albo; sporulis oblongis, utrinque obtusis, hyalinis, 3,5-4.

Hab. in radicibus caulibusque imis Artemisiæ Abrotani, p. Pragam Bohemiæ.

22. Aposphæria densiuscula Sacc. et Roum. Reliq. Libert. Ser. IV. 1039 n. 86. — Peritheciis dense gregariis, superficialibus, globosis, conicis variisve, atris, 1/4 mill. diam.; sporulis ovoideo-oblongis, 5 \(\pi 2\), hyalinis; basidiis bacillaribus paulo brevioribus.

Hab. in trunco decorticato Brassicæ, in Germania et Gallia.

— Diversa a Ph. Lingam, oleracea et incrustante quoque brassicicolis.

23. Aposphæria librincola (C. et H.) Sacc. Phoma librincola Cooke 1040 et Harkn. in Grevillea 1881, p. 82. — Exigua, gregaria, inter fibrillas nidulans; peritheciis globosis, numerosis, atris; sporulis ellipsoideis, continuis, hyalinis, 8-9 \u2224.

Hab. in libro Acaciæ, areas latas occupans et exasperans, in California Amer. bor.

24. Aposphæria labens Sacc. Mich. I. p. 125 (*Phoma*). — Perithe- 1041 ciis gregariis, superficialibus, ¹/₄ mill. diam., globosis, vix papillatis, membranaceo-molliusculis, dein collabascendo excavatis, fuligineo-atris; sporulis cylindraceis, 4 ≈ 1, lenissime curvulis, hyalinis, basidiis filiformibus, fasciculatis sporulà duplo longioribus, 8 ≈ 1, ex strato proligero celluloso fuligineo oriundis fultis.

Hab. in libro v. ligno Robiniæ Pseudacaciæ, Quercus etc., in Italia, Germania, Gallia. — Phomæ seriutæ (Pers.) affinis.

25. Aposphæria fuscidula Sacc. Mich. II. p. 271 (*Phoma*). — Peri- 1042 theciis ligno basi infossis gregariis, globoso-conoideis, papillulatis, atris; sporulis oblongis, utrinque obtuse rotundatis, $3-4 \approx 1 \frac{1}{2}-2$, 2-guttulatis, e hyalino flavidulis.

Hab. in ramis decorticatis Sambuci nigræ, Cadore Italiæ borealis. — Forte spermogonium Melanommatis fusciduli Sacc.

26. Aposphæria fibriseda (C. et Ellis) Sacc. Phoma fibriseda C. et 1043 Ellis in Grevillea. — Peritheciis gregariis, immersis; ostiolo breve emergente; sporulis Phomæ (Cooke).

Hab. in ramis decorticatis Rhois venenatæ, New Jersey Amer. bor. — Habitus totus Sphæropsidis fibrisedæ C. et E., sed sporulæ Phomæ.

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27. Aposphæria fusco-maculans Sacc. Mich. II. p. 275 (Phoma). — 1044 Peritheciis late gregariis, ligno superficie infuscato, semi- v. fere totis immersis, 1/5 mill. diam., globulosis v. subcompressis, nigris; ostiolo obsoleto; sporulis oblongis, utrinque rotundatis, $5 \approx 1-1^{1}/4$, dilutissime olivaceis, basidiis fasciculatis deorsum incrassatis, 8 = 2, hyalinis suffultis.

Hab. in ligno decorticato Piri Mali, in Italia bor. — Affinis Aposph. fuscidulæ Sacc., a qua basidiis, matrice infuscata etc. satis recedere videtur.

28. Aposphæria macrosperma (Cooke et Harkn.) Sacc. Sphæropsis 1045 macrospermà Cooke et Harkn. in Grevillea n. 64. — Superficialis sparsa; peritheciis subglobosis, atris, punctiformibus, levibus, vix papillatis; sporulis magnis, ellipticis, utrinque rotundatis, hyalinis, $32-40 \approx 12$, granulis repletis, episporio crasso.

Hab. in cortice dejecto Eucalypti, in California.

29. Aposphæria cava Sacc. et Schulz. Micr. Slav. n. 50. Schulz. Ill. 1046 Fung. Slav. n. 103. — Peritheciis subsuperficialibus, globoso-depressis, vertice obtusissimo minute pertusis, atris, 1/8-1/6 mill. diam., intus cavis; sporulis breve cylindraceis, utrinque truncatis, 31/2 ... longis, hyalinis; basidiis bacillaribus, triplo longioribus, hyalinis.

Hab. in ramis corticatis Cydoniæ vulgaris, pr. Vinkovce. 30. Aposphæria Mori (Mont.) Sacc. Phoma Mori Mont. Cent. VI. n. 1047 88, in Ann., 3, XII. p. 306. Syll. n. 975. — Peritheciis dimidiatis, minutissimis, superficialibus, conico-hemisphæricis, apice poro pertusis, tandem circumscisso-deciduis; sporulis erectis brevibus sporas oblongo-fusiformes, 5-6 \u03b3. longas sustinentibus.

Hab. in ligno decorticato Mori albæ, Perpignan Galliæ.

31. Aposphæria Prillieuxiana Sacc. et Roum. Reliq. Lib. V. n. 84. — 1048 Peritheciis densissime gregariis, superficialibus, globoso-conicis, obtuse papillatis, majusculis, 3/4 mill. diam., atris, subcarbonaceis; sporulis oblongis, utrinque rotundatis, $6 \approx 2$, 5-3, medio rarius lenissime coarctatis, hyalinis; basidiis bacillaribus, subæquilongis, fasciculatis.

Hab. in ligno putrescente Vitis, in Gallia et Germania.

32. Aposphæria inconspicua (Desm.) Sacc. Sphæria inconspicua Desm. 1049 Nouv. n. 1843, p. 20. — Peritheciis superficialibus, microscopicis, confertissimis, subglobosis, atris, levibus, nitidis, astomis, maculæ indeterminatæ fuligineæ insidentibus; sporulis minutissimis, 3-4 μ . longis, 2-guttatis.

Hab. ad corticem truncorum Aceris platanoidis, in Gallia.

33. Aposphæria inophila (Berk.) Sacc. *Ph. inophila* Berk. Ann. N. 1050 Hist. n. 735. — Maculis indeterminatis, sericeo-nitidulis; peritheciis oblongis; sporulis oblongis, minutissimis, utrinque 1-guttulatis, 1.5-2 μ. longis, hyalinis.

Hab. in asseribus Aceris, in Britannia.

34. Aposphæria seriata (Pers.) Sacc. Sphæria seriata Pers. Ic. pict. 1051 t. 16, f. 2. — In seriem elongatam conferta, atra; peritheciis minutis, mollibus, rugulosis, orbiculatim depressis, papillatis; sporulis minutis, oblongis, hyalinis.

Hab. in ligno molli quercino, in Gallia, Suecia.

35. Aposphæria Pulviscula Sacc. Mich. I. p. 258 (Phoma). — Peri- 1052 theciis subsuperficialibus epixylis, gregariis, subglobosis, papillulatis, 100 μ . diam.; contextu minute parenchymatico fuligineo; sporulis oblongis, minutissimis, $4-4.5 \approx 1.5-2$, hyalinis, basidiis, $5-8 \approx 2$, sursum attenuatis suffultis.

Hab. in ligno udo et in cortice duriore salicino, in Italia et Gallia. — Probabiliter status Melanommatis Pulviscula. — Aposphæriæ pineæ Sacc. affinis.

36. Aposphæria ulmicola (Berk.) Sacc. Phoma ulmicola Berk. Ann. 1053 N. H. n. 737. — Peritheciis dense hinc inde gregariis, plagulasque oblongas minutas brunneas gignentibus; sporulis minutis, ellipsoideis, hyalinis, 2 μ. long., nucleis obsoletis.

Hab. in asseribus Ulmi, in Britannia.

37. Aposphæria mucifera (Berk.) Sacc. Phoma mucifera Berk. Ann. 1054 N. H. n. 736. — Peritheciis sparsis, oblongis; sporulis minutissimis, muco persistente involutis, oblongis, biguttulatis, hyalinis, demum cirrose expulsis.

Hab. in asseribus Ulmi, in Britannia.

38. Aposphæria glomerata (Corda) Sacc. Coniothyrium glomeratum 10.5 Corda Ic. IV. f. 108. — Peritheciis in cæspitulos minutos nigros congregatis, superficialibus convexis, rugulosis, brunneis; sporulis oblongis, utrinque rotundatis, hyalinis, 5-6 μ. longis.

Hab. in asseribus lignisque Ulmi, etc. in Bohemia et Britannia.
39. Aposphæria consors Schulz. et Sacc. Micr. Slav. n. 52. Schulz. 1056
Ill. Fung. Slav. n. 841. — Peritheciis superficialibus, v. basi ligno infossis, globoso-depressis, minutis, 170 μ. diam., nigris, intus pallidis; sporulis ellipsoideis, hyalinis, 5-6 μ. longis; basidiis non visis.

Hab. in ramis decorticatis Ulmi suberosæ, socia Eutypa polymorpha, cujus forte spermogonium, pr. Vinkovce.



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40. Aposphæria minutula (Peck.) Sacc. Coniothyrium minutulum 1057 Peck Bot. Gaz. 1880, p. 33. — Peritheciis minutis, sparsis, subglobosis v. depressis, atris, 150-160 μ. diam.; sporulis minutis, ovato-oblongis v. ellipsoideis, hyalinis, 3,5-4 = 2.

Hab. in ligni durioris superficie dealbata, Vermont Amer.

bor. (Pringle). — Perithecii pars superior tandem decedit.

41. Aposphæria fibricola (Berk.) Sacc. Phoma fibricola Berk. Ann. 1058 N. H. n. 739. — Maculis indeterminatis; peritheciis sparsis v. hinc inde aggregatis, secundum fibras dispositis; sporulis ovoideis v. subellipsoideis, 6 μ. longis, chlorinis, enucleatis.

Hab. in ligno Quercus, Fraxini, Ulmi, Populi, Cupressi, in Britannia, Belgio, America boreali. — Affinis Coniothyrio.

42. Aposphæria collabens (B. et C.) Sacc. Sphæropsis collabens B. 1059 et C. North Am. F. n. 419. — Peritheciis nudis, collabentibus, nitidis, nigerrimis; papilla centrali; sporulis allantoideis, hyalinis.

Hab. in ramis decorticatis, New England Am. bor. (Murray).

- Perithecia demum Discosiam fere æmulantia.

43. Aposphæria oxystoma Sacc. et Roum. Reliq. Lib. V. n. 85. — 1060 Peritheciis gregariis, subsuperficialibus, globoso-conicis, acute papillatis, atro-nitidulis, fere ½ mill. diam.; sporulis oblongo-teretiusculis, 3 ≈ 1, hyalinis; basidiis obsoletis.

Hab. in fragmentis ligneis, in Gallia et Germania.

44. Aposphæria arctica (Karst.) Sacc. Phoma arctica Karst. Hedw. 1061 1884, p. 19 (nec Berk.). — Peritheciis gregariis, erumpenti-superficialibus, rotundatis, ut plurimum subsphæroideis, astomis, atris, 4-5 μ . diam.; sporulis sphæroideis vel ovoideis, hyalinis, diam. 1,5 -3 vel $2-4\approx 1-2$.

Hab. ad lignum vetustum in insula Maris-glacialis, Kildin.

45. Aposphæria Papillula Sacc. et Roum. Reliq. Lib. V. n. 82. — 1062 Peritheciis gregariis, superficialibus subcarbonaceis, nigris, globosis, distincte papillatis, ½ mill. diam.; sporulis oblongo-teretiusculis, utrinque obtusiusculis, 6-8 = 2; basidiis subnullis.

Hab. in ligno putri, in Gallia et Germania.

46. Aposphæria Petersii (B. et C.) Sacc. Phoma Petersii B. et C. 1063 North Am. F. n. 377. — Erumpens, demum superficialis, hysteriiformis, in ligno dealbato sita; sporulis ellipticis, binucleatis, 7-8 μ. longis.

Hab. in ligno aeri diu exposito dealbatoque, Alabama Amer. bor.

— Ab A. epileuca sporulis duplo majoribus differt.

47. Aposphæria umbonata (Preuss) Sacc. Phoma umbonata Preuss 1064

F. Hoyersw. n. 279. — Peritheciis subconicis, papillatis, atris; nucleo pulposo albo; sporulis ovatis albis, in medio guttulam oleosam continentibus.

Hab. ad ligna exsiccata, Hoyerswerda.

48. Aposphæria Pomi Schulz. et Sacc. Microm. Slav. n. 51, Schulz. 1065 Ill. Fung. Slav. n. 146. — Peritheciis superficialibus dense gregariis, globoso-hemisphæricis, ½10-1/6 mill. diam., vertice obtusis, pertusis, basi hyphis fuligineis filiformibus, septatis cinctis; sporulis ovato-oblongis, 2 raro 1-3-guttatis, 6-8 ≈ 2-3, hyalinis; basidiis..... non visis.

Hab. in epicarpio putrido Mali, Vinkovce.

49. Aposphæria subtilis (Corda) Sacc. Coniothyrium subtile Corda 1066 Ic. IV. p. 38, fig. 107. — Gregaria, minutissima, punctiformis; peritheciis convexis, rugulosis, atris, dein laciniato-ruptis; sporulis minutis ovoideis, hyalinis, 3-4 μ. longis.

Hab. in ligno ramorum emortuorum arborum frondosarum,

Reichenberg in Bohemia.

50. Aposphæria Putaminum (Speg.) Sacc. Phoma Putaminum Speg. 1067 Mich. II. p. 275. — Peritheciis globoso-difformibus, superficialibus, atris, carbonaceis, ostiolo difformi donatis, 150-180 μ . diam.; sporulis copiosis, e globoso ovoideis, non vel 1-guttulatis, chlorinis, $2^1/_2-3^1/_2 \approx 1^1/_2-2$.

Hab. in parte interiore putaminum putrescentium Persi-

cæ vulgaris, in hortis, Belluno Ital. bor.

51. Aposphæria suberina Sacc. Mich. II. p. 338 (Phoma). — Peri- 1068 theciis gregariis subsuperficialibus, hemisphæricis, $\frac{1}{6}$ mill. diam., subinæqualibus, vix papillatis, nigris; sporulis oblongo-ellipsoideis, $5-6 \approx 2$, 2-guttulatis, hyalinis.

Hab. In subere (ad usum obturaculi) udo putrescente, Lyon

Galliæ (THERRY).

52. Aposphæria? schizothecioides (Pr.) Sacc. Sphærocista schizo- 1069 thecioides Preuss Hoyersw. n. 34. — Peritheciis solitariis, atris, basi contractis, floccosis, tum tumido-conicis, dein apice scissis; nucleo mucoso; cirro longo filiformi; basidiis filiformibus; sporulis longis cylindricis, curvatis, albis.

Hab. in ligno decorticato Callunæ vulgaris, Hoyerswerda. 1070

53. Aposphæria subcrustacea Karst. Symb. Myc. XV. p. 154. — Peritheciis superficialibus, confertissimis, ovoideis v. sphæroideo-ovoideis, vertice in ostiolum conoideum brevissimum attenuatis, nitidis,

178 Sphærioideæ, Hyalosporæ, Dendrophoma.

levibus, glabris, 300 μ . diam.; sporulis fusoideo-oblongatis, vulgo rectis, 2-guttulatis, hyalinis, 6-7 \approx 1,5-3.

Hab. in ligno Pruni Padi in Mustiala Fenniæ.

DENDROPHOMA Sacc. Mich. II. p. 4. (Etym. dendron arbor, et Phoma, ob basidia ramosa). — Perithecia subcutanea, raro superficialia (Dendrophomella), subglobosa, papillata, membranaceo-carbonacea, calva. Sporulæ oblongæ vel ovoideæ vel suballantoideæ, hyalinæ. Basidia verticillato- (raro simpliciter) ramosa, acicularia.

I. Eu-Dendrophoma.
Perithecia subcutanea.

1. Dendrophoma orientalis Sacc. et Penz. Mich. II. p. 619. — Peri- 1071 theciis laxe gregariis, globoso-depressis, 1/4 mill. diam., pertusis, epidermide velatis; basidiis fasciculatis, sursum vage vel subverticillato-ramosis, 15-20 = 1-1,5; sporulis cylindraceis, utrinque rotundatis, 3,5-4 = 0,5-1, hyalinis, plerumque rectis.

Hab. in ramulis Kerriæ japonicæ, Brionne Galliæ (MAL-

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2. Dendrophoma Sambuci (B. et C.) Sacc. Sphæronæma Sambuci B. 1072 et G. North Amer. F. n. 408. — Peritheciis sparsis, erumpentibus, obtusis; sporulis minutis, oblongis, curvulis; basidiis ramosis. Hab. in ramis Sambuci, Maine Amer. bor. (J. Blake).

3. Dendrophoma Rhododendri (Roum.) Sacc. Mich. II. p. 336, Cyti- 1073 spora Rhododendri Roum. p. p. — Peritheciis gregariis, subcutaneis, intus albis, minutis, vix erumpentibus; sporulis perexiguis teretiusculis, $4 \approx \frac{1}{2}$, hyalinis, copiosissimis, basidiis bacillaribus, sæpe verticillato-ramulosis, $10-15 \approx \frac{3}{4}$, suffultis.

Hab. in ramis Rhododendri pontici, socia Diplodia, Tarbes Galliæ.

4. Dendrophoma pleurospora Sacc. Mich. II. p. 362. — Peritheciis 1074 sparsis, globoso-conicis, pertusis, nucleo pallido, $140-200 \mu$. diam., contextu parenchymatico, pallide fuligineo; sporulis breve cylindraceis, $4-4^{1}/_{2} \approx 1-1^{1}/_{2}$, ad latera et apicem basidiorum bacillarium, $30-50 \approx 2^{1}/_{2}-3^{1}/_{2}$, rectorum sessiliter adnatis, obliquis.

Hab. in ramis corticatis variis, in Italia et Gallia. — Adsunt plures formæ: laurina: basid. $30-40 \approx 3$; sporul. $4 \approx 1^1/2$. In foliis Lauri nobilis. — ribesia: basid. $50 \approx 3-3^3/2$; sporul. $4 \approx 1$. In ramis Ribis rubri. — vitigena: basid. $30-40 \approx 2$; sporul. 4- $5 \approx 1^1/2-2$; perith. nucleo griseo. In sarmentis Vitis æstivalis.

- quercina: basid. $60 \approx 3$; sporul. $5 \approx 1^3/4$. In ramis quercinis. Rosiflorarum: basid. $50-55 \approx 3$; sporul. $4 \approx 3/4$. In ramis Rosæ et Pruni.
- 5. Dendrophoma valsispora Penz. Mich. II. pag. 433. Peritheciis 1075 sparsis in aridis foliorum maculis, globosis, epidermide tectis, 250-280 μ . d., ostiolo prominente, contextu parenchymatico, atro-brunneo; sporulis cylindricis, curvulis, utrinque rotundatis, minimis, 3-3,5 \pm 0,5-1, hyalinis; basidiis fasciculatis, verticillatim ramosis, hyalinis, 15-18 \pm 1-1,5.

Hab. in foliis vivis Citri Limonum in frigidariis R. Horti Botanici Patavini. — Var. ramulicola Sacc. Reliq. Lib. V. n. 88. In ramulis salicinis in Gallia.

6. Dendrophoma aspera (Lév.) Sacc. Sphæropsis aspera Lév. Ann. 1076 Sc. Nat. 1846, p. 295. — Peritheciis minutissimis, gregariis, adnatis, globosis, nigris, ostiolis nullis; sporulis ovato-elongatis pellucidis, utrinque obtusis; basidiis ramosis.

Hab. ad ramos Cerasi Padi prope Lyon Galliæ (De Tim-meroy).

7. Dendrophoma pruinosa (Fr.) Sacc. Sphæria pruinosa Fr. S. M. 1077 II. p. 486, Cytispora (Phoma?) pruinosa Sacc. Mich. I. p. 519. — Gregaria; peritheciis tectis, depressis, epidermide adnatis, griseopruinosis, ostiolis bullato-erumpentibus; sporulis allantoideis, 5-7 \approx 0,5-1, e hyalino luteolis; basidiis verticillato-ramosis, sporula 4-5-plo longioribus.

Hab. in ramis corticatis Fraxini in Italia, Suecia, Gallia, Germania, Britannia, Am. bor. — β . Lantanæ Sacc. Mich. I. p. 519: peritheciis globosis, nigro-farctis ostiolo subprominulo, nigro, albido-pruinoso-anulato; sporulis $5 \approx 1$. In ramulis Viburni Lantanæ, in Gallia.

8. Dendrophoma alba (Pr.) Sacc. Sphærocista alba Preuss Fungi 1078
Hoyersw. n. 307. — Cortici insidens; peritheciis coriaceo-corneis, subglobosis, pertusis, cum villo substrigoso subiculari corticem penetrante, nucleo albido; basidiis longis, furcatis; sporulis oblongo-cylindricis, utrinque obtusis, albis.

Hab. in cortice Fraxini pendulæ, Hoyerswerda.

9. Dendrophoma myriadea (Pr.) Sacc. Phoma myriadea (Pr.) Sacc. 1079 Sphærocista myriadea Preuss F. Hoyersw. n. 41. — Gregaria; peritheciis innato-prominulis applanatis, minimis, astomis, nigris, in macula inæquali insidentibus; basidiis longis, simplicibus, dichotomis; sporulis elongatis, continuis, albis.

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Hab. ad folia Quercus, Hoyerswerda.

10. Dendrophoma crassicollis Schulz. et Sacc. Microm. Slav. n. 34, 1080 Schulz. Ill. Fung. Slav. n. 842. — Peritheciis laxe gregariis, globoso-depressis, ¹/₂ mill. crass., peridermo tectis, intus pallidis, ostiolo conico, obtuso vix erumpente; sporulis suballantoideis, hyalinis, 5-6 = 2, hyalinis; basidiis sporulâ triplo longioribus, filiformibus, furcatis ramosisve.

Hab. in ramis corticatis Fraxini excelsioris prope Vinkovce. — Videretur Cytospora simplex.

11. Dendrophoma merizophila (Pr.) Sacc. Sphærocista merizophila 1081 Preuss F. Hoyersw. n. 40. — Erumpens, gregaria, simplex; peritheciis rotundato-lentiformibus, atris, perforatis; pulpa sporulosa per ostiolum in persico-rubrum globulum expulsa; basidiis longis, continuis, ramiformibus divisis; sporulis minutis, cylindricis, subcurvatis, continuis, albis.

Hab. in ramulis arborum frondosarum dejectis, Hoyerswerda.

II. Dendrophomella.

Perithecia superficialia (cfr. Aposphæria).

12. Dendrophoma cytosporoides Sacc. Mich. II. p. 273. — Peritheciis 1082 sparsis vel hinc inde subaggregatis, globoso-conoideis, superficialibus, nigris; contextu anguste prosenchymatico; sporulis botuliformibus, $5-6 \approx 1-1\frac{1}{2}$, hyalinis, basidiis fasciculatis, verticillatoramosis, acicularibus, 3-4-plo longioribus suffultis.

Hab. in ramis decorticatis D eutziæ scabræ, Saintes (Brunaud), et Ulmi, Rouen Galliæ (Letendre), ubi perithecia denique cupulato-collapsa videntur. — *punicina Sacc.: peritheciis initio subcutaneis, denique erumpentibus, papillatis; sporulis allantoideis, $4 \approx 1\frac{1}{4}$, 2-guttulatis, hyalinis, basidiis simpliciter verticillatis, deorsum attenuatis, $10 \approx 2$, suffultis. — In ramis corticatis Punicæ Granati, Padova.

13. Dendrophoma Therryana Sacc. et Roum. Mich. II. pag. 336. — 1083 Peritheciis superficialibus vel erumpenti-superficialibus, gregariis vel hinc inde subaggregatis, globoso-inæqualibus, atris, $\frac{1}{4} - \frac{1}{3}$ mill. diam., vix papillatis; sporulis ovoideis, $3 \approx 1$, basidiis verticillatoramosis, acicularibus, $25 \approx 1$, suffultis.

Hab. in cortice Platani (?) in horto botanico Lyon Galliæ (Therry), in ligno quercino et populino in Arduennis (Libert).

— Forma Castaneæ Sacc. l. c.: sporulis $3 \approx 1$; basidiis $15-20 \approx 1$,

peritheciis subsuperficialibus. In trunco Castaneæ, Conegliano Italiæ bor.

14. Dendrophoma Pulvis-pyrius Sacc. F. V. N. Ser. III. sub n. 18. 1084 — Peritheciis globulosis, subdepressis, exiguis vix papillatis, subirregularibus; sporulis minimis, cylindraceis, 3-4 ≈ 0,7, hyalinis; basidiis semel vel bis verticillato-ramulosis, 18-25 ≈ 1.

Hab. in lignis corticibusque crassioribus Piri, Alni, Carpini, Quercus, Robiniæ in Italia et Gallia.

15. Dendrophoma populina Schulz. et Sacc. Micr. Slav. n. 37, Ill. Fung. 1085 Slav. n. 8. — Peritheciis gregariis, tenue membranaceis, globosodepressis, lignicolis, crustula stromatica atra basi infossis; basidiis dichotomo-ramosis, denticulatis, hyalinis; sporulis cylindraceis, utrinque obtusis, rectiusculis, acro-pleurogenis, basidio 5-6-plo brevioribus, hyalinis.

Hab. in ramis decorticatis populinis, Eperjes Slavoniæ.

16. Dendrophoma lignorum Schulz. et Sacc. Micr. Slav. n. 35, Schulz. 1086 Ill. Fung. Slav. n. 620. — Peritheciis gregariis, minutis, superficialibus, globosis, vertice acutiuscule papillatis, 0,16 ≈ 0,20 mill. d., atris; sporulis teretiusculis, utrinque obtusis, hyalinis, 4 μ. long., basidiis filiformibus, ramosis suffultis.

Hab. in ligno Populi albæ superficie dealbato, prope Vinkovce Slavoniæ.

17. Dendrophoma juglandina Schulz. et Sacc. Micr. Slav. n. 36, Schulz. 1087 Ill. Fung. Slav. n. 162. — Peritheciis subsuperficialibus, gregariis, globoso-conicis, ½ mill. diam., obcuse papillatis, nigris, intus albidis; sporulis oblongis, utrinque rotundatis, 4 µ. long., hyalinis; basidiis repetito-dichotome ramosis, sporula S-plo longioribus, hyalinis.

Hab. in ligno emortuo Juglandis prope Vinkovce Slavoniæ.

18. **Dendrophoma australasica** Speg. F. Argent. Pug. III. n. 101. — 1088 Peritheciis subsuperficialibus, densiuscule sparsis, globosis, atrofuscescentibus, minutis, $\frac{1}{4}$ – $\frac{1}{5}$ mill. d., in sicco umbilicato-corrugatis, duriusculis, carnoso-membranaceis, contextu densissime parenchymatico, fuligineo; basidiis filiformibus, hyalinis, verticillatim ramulosis, $20-40 \approx \frac{1}{2}-1$; sporulis ellipticis v. cymbiformibus, utrinque acutiusculis, hyalinis, simplicibus, $6-8 \approx 1-1\frac{1}{2}$.

Hab. ad folia dejecta putrescentia Eucalypti Globuli en el Parque de Palermo Argentinæ in Amer. austr.

19. Dendrophoma hormococcoides Sacc. et Penz. Mich. II. p. 619. 1089

— Peritheciis sparsis, globulosis, subsuperficialibus, ¹/₄-³/₄ mill. d.,



atris; contextu prosenchymatico sursum evanescente, ostiolumque amplum limitante; basidiis prælongis dense fasciculatis, $70-100 \approx 0.5-1$, pluries stricte furcatis, apice truncatis, hyalinis; sporulis acrogenis teretiusculis, utrinque rotundatis v. subtruncatis, rectiusculis, $3.6-4 \approx 1$, eguttatis, hyalinis.

Hab. in culmo inundato Phragmitis sub cortice et in pariete interiore, Lyon Galliæ (Therry). — Ad Hormococcum vere nutat.

20. Dendrophoma eumorpha Sacc. et Penz. Mich. II. p. 619. — Pe- 1090 ritheciis subsuperficialibus, globosis, papillatis, dein collabascendo umbilicatis, nigris, nitidulis, ½ mill. diam., membranaceo-carbonaceis; sporulis teretiusculis, subrectis, perexiguis, 2,5-3 ≈ 0,5-0,7; basidiis vage ramulosis denticulatisque filiformibus, septulatis, sporula multoties longioribus.

Hab. in parte interiore corticis Pinorum, Le Sapey (Isère)

Galliæ (THERRY).

21. Dendrophoma microsperma (Pr.) Sacc. Sphærocista microsperma 1091 Preuss F. Hoyersw. n. 309. — Peritheciis arachnoideis, albis, supra calvis, atris, conicis, papillatis, obtusis, corneis; basidiis ramosis, longissimis, filiformibus, continuis, albis; sporulis minutis, ovatis, albis; episporio nullo.

Hab. ad ramos decorticatos, Hoyerswerda.

22. Dendrophoma hydrophila Karst. Hedw. 1883, p. 180. — Perithe- 1092 ciis sparsis vel laxe gregariis semi-immersis elongatis, hysterioideis vel rotundatis, glabris, atris, majusculis; sporulis ovoideis, 1-2-guttulatis, hyalinis, 20-25 = 10-14, siccis ovoideo-rotundatis, vel subsphæroideis, 12-18 = 12; basidiis crassiusculis («ramosis?»).

Hab. ad ligna parietina sæpe irrorata in Fennia australi.

- «An potius Aposphæria?».

ASTEROMELLA Pass. et Thüm. in M. U. n. 1689. (Etym. ab Asteromate, cujus habitum præbet). — Perithecia globulosa, minuta, sæpius phyllogena, in maculas asteromatoideas atras dense disposita. Sporulæ ovoideæ v. subcylindricæ, hyalinæ, continuæ. — Habitus Asteromatis, sed fibrillæ genuinæ nullæ.

1. Asteromella ovata Thum. in M. U. n. 1689. — Peritheciis nume- 1093 rosis, maculam obscuram efficientibus, dense gregariis, hypophyllis, globosis, emersis, atris; sporulis numerosissimis, ovoideis, utrinque rotundatis vel subtruncatulis, rectis, simplicibus, hyalinis, 2,5-3

 $\approx 1,5-2.$

Hab. ad folia emortua prostrata Aceris Pseudoplatani, Klosterneuburg Austriæ.

2. Asteromella bacillaris Pass. et Beltr. F. Sic. n. 24. — Peritheciis 1094 superficialibus granuliformibus, sparse vel laxe gregariis, præsertim secus nervos et venas; sporulis minutissimis, bacillaribus, tranquillis, hyalinis, $2^{1}/_{2}-3 \approx \sqrt[3]{_4}-1$.

Hab. ad folia arida dejecta Mori nigræ, Licata Siciliæ.

PIPTOSTOMUM Lév. Ann. Sc. Nat. 1846, p. 65. (Etym. pipto, cado et stoma), Piptostroma Fr. Summa Veg. Scand. p. 409, non Piptostoma B. et Br. F. of Ceyl. n. 1135, quia ascigerum. — Perithecia carbonacea rigida, globosa, demum circumscissa parteque superiore decedente, nucleo celluloso-lobato. Sporulæ continuæ ellipsoideæ, hyalinæ, pedicellis suffultæ, (ascis nullis). — Cytosporæ analogum genus videtur.

1. Piptostomum domingense Lév. l. c. — Erumpens, gregarium; pe- 1095 ritheciis subglobosis, 1-2 mill. diam., rugosis, nigris, demum late apertis, nucleo albo lobato; sporulis ovato-ellipsoideis, continuis, hyalinis, pedicellatis.

Hab. ad cortices in Hispaniola seu S. Domingo.

CROCICREAS Fr. Summa Veg. p. 418. (Etym. crocis floccus et creas caro, ob naturam perithecii). — Perithecia libera, turbinata, carnoso-cornea, extus intusque floccoso-fibrosa, ore umbilicata. Sporulæ oblongæ v. cylindraceæ, hyalinæ. Basidia ramosa filiformia.

1. Crocicreas gramineum Fr. Summa p. 418, Perisporium grami- 1096 neum Fr. S. M. III. p. 249. — Adnatum, turbinatum, demum umbilicato-pertusum, opacum, e testaceo nigrum, basi floccis radiatis præditum; sporulis in basidiorum ramosorum apicibus cylindraceis, rectis, continuis, hyalinis, $12 \approx 2$.

Hab. ad folia emarcida Holci aliorumque Graminum in Suecia, Germania. — Omnino superficiale, sed firmiter adnatum, rigidum, ut folium, cui innascitur, tactu exasperet. Reliquis melius evolutum, licet puncto non majus sit, frequenter sparsum, nulla macula cinctum, demum evidenter pertusum. Colores e flavescente fuscoque nigrescentes.

2. Crocicreas giganteum Mont. Fl. Chil. VII. p. 844, t. 9, f. 7, Syll. 1097 n. 957. — Peritheciis gregariis, liberis, corneis, turbinatis, atris, apice umbilicatis, tandem late apertis, disco albo farinoso; sporulis globosis pedicellatis.



. Hab. ad ramos arborum in Chile (GAY).

3. Crocicreas corticolum Bon. Abhandl. p. 139. — Peritheciis glo- 1098 bosis, adhatis, rugulosis, basi pilis hyalinis, albidis vestitis; ostiolo late aperto; sporulis hyalinis, oblongis; basidiis simplicibus lanceolatis.

 $\it Hab.$ in ramis siccis dejectis in Guestphalia Germaniæ. — « Dubia species».

PYRENOTRICHUM Mont. Syll. p. 267, Ann. Sc. Nat. 1843, XX. p. 376. (Etym. pyrenium seu perithecium et thrix, floccus seu basidium). — Perithecia membranacea, subsphærica cupulari-depressa, sessilia atra, demum circumscissa. Nucleus gelatinosus, e floccis myriadeis subcontinuis (cincinnatis) acrosporis compositus. Sporulæ oblongæ, continuæ, hyalinæ.

Pyrenotrichum Splitgerberi Mont. Ann. Sc. Nat. l. c. p. 377, t. 16, 1099
 f. 2. — Characteres iidem ac generis. Perithecium semen sinapeos æquans. Sporulæ 5 ≈ 2.

Hab. ad crustam Lichenum parasitans, in cortice Cerberce Thevetice in Surinam (Splitgerber).

SCLEROTIOPSIS Speg. F. Arg. Pug. IV. n. 282 (Etym. a Sclerotio, quod mentitur). — Perithecia tecta, immersa, parenchymati innata, amphigena, carnosulo-membranacea, majuscula, astoma. Sporulæ ellipticæ, utrinque lateraliter acutato-angulatæ, in basidiis filiformibus, monospermis acrogenæ.

1. Sclerotiopsis australasica Speg. Arg. Pug. 1V. n. 282. — Peri- 1100 theciis parenchymati immersis, epidermide tectis, amphigenis, irregulariter lenticularibus, majusculis, 0,5-1,5 mill. diam., astomis, crassiuscule membranaceis, contextu indistincte parenchymatico, olivaceo; basidiis e strato proligero oriundis, dense constipatis, filiformibus, simplicibus, 25 ≈ 1, monosporis, hyalinis; sporulis cylindraceo-subnavicularibus, 7-8 ≈ 1,5-2, utrinque lateraliter acutato-angulatis (Vermiculariæ more), hyalinis, acrogenis.

Hab. in foliis dejectis putrescentibus Eucalypti Globuli, Parque de Palermo Argentinæ. — Species primo intuitu Sclerotii innati speciem quamdam in mentem revocat.

PLENODOMUS Preuss F. Hoyersw. n. 150 et in Sturm Pilz. III. t. 72 (Etym. *plenus* et *domus*, quia perithecia farcta). — Perithecia immersa cornea, intus carnosa, primum clausa (dein irregulariter

rupta vel secedentia), rotundata multiformia. Basidia flocciformia brevissima. Sporulæ continuæ, oblongæ, hyalinæ.

1. Plenodomus Rabenhorstii Preuss l. c. — Peritheciis gregariis erum- 1101 pentibus, oblongis, ellipticis, irregulariter plicatis, tuberculatis polymorphisque, opacis nigris, contextu cellulosis, primum clausis dein ostiolatis, intus carnoso-cellulosis, albis; caverna sporarum semicirculiformi; basidiis minutissimis; sporulis minutis oblongis, pellucidis, albis, utrinque rotundatis.

Hab. in truncorum epidermide Brassicæ crispæ dejectorum, Hoyerswerda. — Habitus Sclerotii.

mycogala Rost. in Cooke Myxom. p. 84 (nomen). (Etym. myces fungus et gala lac.). — Perithecia subsuperficialia subcarbonacea, fragilia, astoma, mox inordinate dehiscentia, nucleo pallescente. Sporulæ globulosæ, continuæ, hyalino-flavæ, basidiis nullis vel obsoletis. — Genus habitu Anixice, ad interim hic locatum, sed maxime desciscens. Contextus perithecii distincte parenchymaticus; ergo a Myxomycetibus, quibus fungillus referri solebat, abhorrens.

Mycogala parietinum (Schrad.) Sacc. M. bicolor (Pers.) Rost. l. c. 1102
 Lycogala parietinum Fr. S. M. III. p. 83, Didymium parietinum
 Schrad. — Peritheciis hemisphæricis, superficialibus, cœrulescentinigris subpunctatis, mox inordinate dehiscentibus, contextu parenchymatico fuligineo, nucleo pallide flavo, demum pulveraceo; sporulis globulosis, 10-12 μ. diam., pallide flavis, coacervatis sulfureis, extus rugulosis.

Hab. in lignis, tela, parietibus in Gallia, Germania, Lapponia, Italia.

SPHÆRONÆMA Fr. S. M. II. pag. 535. (Etym. a sphæra et nama fluxio, ob sporulas sæpe fluendo in globulum terminalem conglutinatas). — Perithecia membranacea, coriacea vel carbonacea, innata vel superficialia, globulosa in ostiolum plus vel minus subulatum producta. Sporulæ ovoideæ vel oblongæ, continuæ, subhyalinæ sæpe, madore, ad ostioli verticem expulsæ globulumque formantes. — Formatio globuli sporularum nil peculiaris est, nam in multis aliis occurrit; hinc mihi nota generis est rostrum nec globulus. Species erostres etsi globuligeras auctorum ad Aposphæriam vel Phomam duco.

I. Eu-Sphæronæma. Sporulæ subhyalinæ.
 A) In Dicotyledoneis lignosis.

1. Sphæronæma polymorphum Auersw. Bot. Zeit. 1851, p. 181. - Pe- 1103



ritheciis variis cylindricis vel e basi hemisphærica vel subglobosa cylindricis, vel subconicis vel obconicis, globulo livido-nigrescente coronatis; sporulis oblongo-cylindraceis, minutissimis, rectis, hyalinis, $6 \approx 1.5$; basidiis bacillaribus subinde furcatis, $18-20 \approx 1.5$.

- Hab. in truncis Pruni, Padi, in Germania, Gallia et Italia. Forma obconica sistit forte Sph. pistillare Wallr. Secundum Fuck. est spermogonium Cenangii vernicosi. *Sph. affine Sacc.: peritheciis conoideo-elongatis, apice obtusiusculis, coriaceis, gregariis; sporulis allantoideis minutis, $6 \approx \frac{3}{4}-1$, hyalinis; basidiis bacillaribus triplo longioribus. In ramis corticatis Populi tremulæ vel Betulæ, Cadore Italiæ bor.
- 2. Sphæronæma minutissimum Peck 25 Rep. p. 85. Peritheciis spar- 1104 sis, minutis, sphæriæformibus vel subconicis, obtusis, a matrice facile secedentibus, nigris; globulo albido; sporulis oblongis, continuis, hyalinis, 7 μ. longis.

Hab. in ramis Pruni serotinæ, Helderberg Amer. bor. — Perithecia prominula matricem asperulam reddunt.

3. Sphæronæma brunneo-viride Auersw. in Herb. — Peritheciis gre- 1105 gariis e basi cortice insculpta superficialibus, elongato-conicis, atro-virentibus, coriaceis, apice obtusiusculis; sporulis subfusoideis, leniter curvis, 18 ≈ 3, hyalinis; basidiis filiformibus, subinde furcatis, hyalinis, 25-30 ≈ 1,5.

Hab. in ramis corticatis Pruni Padi in Germania. — Sec. Fuck. Symb. Myc. p. 269 sistit spermogonium Cenangii Cerasi β. Padi A. S.

4. Sphæronæma spurium (Fr.) Sacc. Ceratostomum spurium Fr. Obs. 1106 II. p. 338, teste Fuck. — Peritheciis spuriis erumpentibus, 3 mill. altis, conico-cylindraceis, fragilissimis, pulverulentis, atro-fuscis; globulo griseo, minuto, terminali; sporulis lineari-fusoideis, curvulis, hyalinis.

Hab. in ramis corticatis Pruni spinosæ prope Œstrich Germaniæ. — Pycnidium Cenangii Prunastri Fr., teste Tul.

5. Sphæronæma Sorbi Sacc. Dothioræ Sorbi pycnidium Fuck. Symb. 1107 p. 275. — Peritheciis spuriis sparsis subcæspitosisve, sub epidermide flavicante nidulantibus, globosis, atris, media magnitudine in rostrum conicum, obtusum, prominulum, aterrimum, perithecium æquans attenuatis; sporulis anguste fusiformibus, curvatis, continuis, 14-18 \approx 2-3, guttulatis, hyalinis.

Hab. in ramis corticatis Sorbi Ariæ in Rhenogovia.

6. Sphæronæma pallidum Peck 25 Rep. p. 85. — Peritheciis sparsis, 1108

erumpentibus, subconicis, obtusis, epidermide rupta cinctis, nigris, globulo pallido vel albido persistente coronatis; sporulis fusoideis, leniter curvis, utrinque acutis, plerumque 2-3-nucleatis, 15-16 μ . longis.

Hab. in ramis Piri Americanæ, Sandlake Amer. bor.

7. Sphæronæma conforme Peck Rep. St. Mus. N. Y. — Peritheciis 1109 sparsis, erumpentibus, in ostiolum rigidum spiniforme nigrum desinentibus; globulo albido; sporulis subfusoideis, sæpe curvulis sæpeque 1-2-nucleatis, 15-20 μ. longis.

Hab. in ramis emortuis Piri, Center Amer. bor. — Habitus

Sph. Spinæ et Sph. Magnoliæ, at sporulæ diversæ.

8. Sphæronæma Cerasi Lasch Bot. Zeit. 1851, p. 181. — Peritheciis 1110 breve cylindricis, nigris; globulo fusco-olivaceo; sporulis oblongis.

Hab. in ramis Pruni Cerasi in Germania. — A Sph. pi-

riformi valde diversum dicitur.

9. Sphæronæma Eucalypti Cooke et Harkn. in Grevill. 1881, p. 127. 1111
 — Peritheciis sparsis, erumpentibus, conicis, atris; sporulis minoribus, subcylindricis, leniter curvulis, hyalinis, utrinque obtusis, 8 = 2.

Hab. in cortice Eucalypti in California.

10. Sphæronæma nitidum B. et C. North Amer. Fungi n. 406. — 1112 Peritheciis erumpentibus, subinde zonula atra cinctis, conicis truncatis; sporulis oblongis vel clavatis, hic illic uno apice attenuatis, binucleatis, 10 μ. longis.

Hab. in ramis Aceris Negundinis in Carolina Amer. bor.

Sphæronæma cæspitosum Fuck. Symb. p. mmm. — Peritheciis 1113 cæspitosis, cylindraceis, vel apicem versus angustatis elongatisve, 1-2 lineas altis, fuscis; globulo terminali atro-fusco; sporulis numerosissimis, globosis ovatisve, pallide fiavis, circa 3 μ. diam.

Hab. in ramis putrescentibus Aceris platanoidis, sæpius

in Eutypa parasiticum, Reichartshausen Rhenogoviæ.

12. Sphæronæma acerinum Peck 24 Rep. St. Mus. New York., Sph. 1114 nigripes Ell. in Torr. Bot. Cl. 1876, p. 107. — Peritheciis cortice innatis, peridermium perforantibus, inferne conico-hemisphæricis, sursum in rostellum longum, angustum, flexuosum v. curvum attenuatis, nigris v. brunneo-atris; globulo minuto hyalino; sporulis ellipsoideis, sæpe 1-2-guttatis, hyalinis, 15-20 × 4,5.

Hab. in trunco ramisque Aceris rubri, South Jersey, Green-

bush, Sandlake, Indian Lake Amer. bor.

13. Sphæronæma columnare Wallr, Fl. crypt. n. 3684. — Peritheciis 1115

fasciculatis, subconfluentibus, nigris, incusis, strictis, speciosis, e basi æquali cylindrica in verticem obtusum umbonatum veluti operculatum nitidum, poro tenuissimo pertusum productis.

Hab. ad truncos fraxineos cæsos in Thuringia.

14. Sphæronæma Oleæ (De Not.) Sacc. Spilobolus Oleæ De Not. Micr. 1116 ital. Dec. VII, f. 10. — Peritheciis depresso-globulosis, erumpentibus in collum crassum subæquilongum, apice rotundatum, abrupte productis, atronitidis; contextu subcorneo parenchymatico; sporulis cylindraceis, curvulis, 6-8 ≈ 2, subhyalinis; basidiis filiformibus, simplicibus furcatisve, hyalinis, sporula sub-triplo longioribus.

Hab. in ramis corticatis Oleæ europææ. — Forma xylogena Sacc. F. Ven. Ser. IV. sub n. 57: sporulis $4-6 \approx 2$, dilute olivaceo-fuscellis; basidiis subsimplicibus, sporula duplo longioribus. In ligno Oleæ europææ in Euganeis. Hæc forma videtur spermogo-

nium Cyphelii ochreati Mass.

15. Sphæronæma Spina B. et Rav. North Amer. Fungi n. 403, Sphæ- 1117 ron. acuminatum B. et R., Sphæron. spiniforme B. et C. — Peritheciis erumpentibus, spiniformibus, nigris, corticatis; sporulis minimis globosis.

Hab. in foliis emortuis Fraxini in Carolina infer., Alabama Amer. bor. — Sphæria Spina Schw., quam huc ducit cel. Berk., videtur diversa. Cfr. Syll. I. p. 220.

Sphæronæma Ampelopsidis B. et C. North Amer. Fungi n. 403. 1118
 Gregarium, nigrum, dein deciduum; ostiolo tenui erumpente; sporulis oblongis, hyalinis, minutis, basidio subæquilongo suffultis.

Hab. in ramis Ampelopsidis quinquefoliæ in monti-

bus Virginiæ Amer. bor.

17. Sphæronæma viticolum B. et C. North Amer. Fungi n. 407. — 1119 Peritheciis gregariis, quandoque congestis, erumpentibus, conicis, late truncatis, pulverulentis; parietibus crassis.

Hab. in sarmentis Vitis in Carolina inferiore Amer. bor. —

Affine Sphæronæmati glomerato.

18. Sphæronæma metulæforme Berk. North Amer. Fungi n. 400. — 1120 Peritheciis fuscis metulæformibus, basi subcontractis, collo breviore, apice penicillato albo, setulis articulatis; sporulis.....

Hab. in ramis Corni floridæ, socia Perichæna populina, in Carol. inf. Am. bor. - Ostiolum duas tertias perithecii partes æquans.

19. Sphæronæma pruinosum B. et C. North Amer. Fungi n. 402. — 1121 Erumpens, cylindricum, apice globosum e conidiis minutis basi acutis pruinosum; sporulis oblongis, hyalinis, 17-25 μ. longis.

Hab. in ramis corticatis Rhois venenatæ, in Pensylvania Amer. bor. — Sphæron. pruinosum Peck in Rep. St. Mus., in ramis Amelanchieris canadensis, Garrison Amer. bor., non videtur diversum, saltem ex descriptione.

20. Sphæronæma Rhois B. et C. North Amer. Fungi n. 404. — Pe-1122 ritheciis sparsis vel congestis minoribus, subcylindricis, erumpentibus; sporulis.....

Hab. in ramis Rhois copalline in Carolina inf. Am. bor.

21. Sphæronæma Catalpæ Schw. Syn. Amer. bor. n. 2142. — Peri- 1123 theciis subcylindricis, gracilibus, basi bulboso-incrassata, nigris; globulo spermatico deciduo albo, relinquente foveolam excavatam albam in ore perithecii.

Hab. in aversa pagina decedentis corticis Catalpæ ex libro

pullulans, Bethlehem Amer. bor.

22. Sphæronæma clavatum Lév. Ann. Sc. Nat. 1846, p. 280. — Pe- 1124 ritheciis cæspitosis, globosis, atris, ostiolis elongatis, levibus, clavatis, apice obtuso pertusis; sporulis elliptico-linearibus, continuis, pellucidis.

Hab. ad ramos, folia et etiam gallas Drymidis chilensis

in Chili (GAY). — Perithecia usque 2-3 mill. alta.

23. Sphæronæma clethrincolum Ellis Torr. Cl. 1876, p. 107. — Pe- 1125 ritheciis erumpentibus, sparsis, obtuse conicis vel demum cylindricis, basi incrassatis; globulo albo, dein rufescente; sporulis oblongis, hyalinis, minutis, 4-5 μ. longis.

Hab. in ramis emortuis Clethræ alnifoliæ, South Jersey Amer. bor. — Non confundendum cum Sph. Magnoliæ et Sph.

minutissimo.

24. Sphæronæma cæspitosum Peck 25 Rep. p. 85. — Peritheciis cæ- 1126 spitosis, cylindraceis vel sursum leniter tenuatis, nigris; globulo nigro, nitido; sporulis subfusoideis, 11-12 μ. longis.

Hab. in ramis emortuis Ilicis verticillatæ, Sandlake et

Center Amer. bor.

25. Sphæronæma Fuckelianum Sacc. Dothioræ sphærioidis pycnidium 1127 Fuck. Symb. p. 274. — Peritheciis spuriis superficialibus, gregariis, minutissimis, $240 \approx 128$, in rostrum cylindraceo-conicum, 160 ≈ 60 , attenuatis, quandoque rostro abrupto, aterrimis; sporulis in rostri apicem demum expulsis, cylindraceis curvatis, utrinque obtusis, continuis, $6 \approx 1.5$.

Hab. in cortice duriore ramorum Populi tremulæ emor-

tuorum prope Œstrich Rhenogoviæ.

26. Sphæronæma subpilosum Sacc. Ceratostomatis subpilosi Spermo- 1128 gonium Fuck. Symb. pag. 128. — Peritheciis sparsis gregariisque subsuperficialibus, media magnitudine, carbonaceis, aterrimis, globosis, rostro gracili, plerumque abrupte cylindraceo perithecium æquante, ostiolo perforato, plerumque subtiliter bilabiato obtusove; sporulis ovoideis, biguttulatis, hyalinis, episporio crasso, 8 = 4.

Hab. in ligno putri Salicis albæ in Rhenogovia.

27. Sphæronæma procumbens Sacc., Ceralostomatis procumbentis 1129 Spermog. Fuck. Symb. p. 128, t. IV. f. 45. — Peritheciis gregariis, superficialibus, longissime rostratis, obverse piriformibus, plerumque procumbentibus rostro adscendente, vel verticalibus rostro recto, levibus, atro-fuscis; sporulis cylindraceis, curvulis, minutissimis, in globulum apicalem expulsis.

Hab. in ligno duriore Quercus, rarius in Rhenogovia.

28. Sphæronæma cylindricum (Tode) Fr. S. M. II. p. 538, Sphæria 1230 cylindrica Tode Meckl. II. p. 4, f. 114. — Peritheciis cylindricis, simplicibus, gracilibus, levibus, nigris, globulo prominulo albo; sporulis perexiguis, 3 = 2, hyalinis.

Hab. ad ligna molliora Salicis, Quercus, in Suecia, Germania. — E ligno carie consumpto emergens, nudo oculo vix conspicuum, armato cylindricum, diametro longitudinem duplo superante, opacum, apice rotundato obtusissimo. — β . affine Fr. l. c.: peritheciis primo cylindricis, dein ventricosis conicisque. Nudo oculo punctiforme, opacum. Cum typo.

29. Sphæronæma cladoniscum (Ach.) Fr. S. M. II. p 537, Calicium 1131 cladoniscum Ach. Lich. p. 241. — Peritheciis cylindricis, subra-

mosis, nigris, globulo minimo incluso albo.

Hab. ad ligna putria salicina etc. in Suecia et Germania.

— Sph. cylindrico nimis adfine, nam reperiuntur etiam individua simplicia; tamen dignoscendum apice truncato subaperto, globulo (forsan deciduo) disci instar incluso. Vix ultra ½ lin. altum.

30. Sphæronæma Populi B. et C. North Amer. F. n. 406. — Peri- 1132 theciis conicis vel subcylindricis, sparsis vel quandoque congestis

sporulis breviter fusiformibus, hyalinis, 10 μ . longis,

Hab. in cortice Populi monilifer me in America bor.

31. Sphæronæma?? Acicula Sacc., Rouss. et Bomm. Miscell. Mycol. 1133 p. 20. — Peritheciis spuriis in ligno superficie pruinoso-dealbato, laxe gregariis, superficialibus, minutis, acicularibus, apice truncatis, nigris, 150 \precess50, contextu prosenchymatico, subcarbonaceo, fuligineo; basidiis prælongis, filiformibus, fasciculatis, apice in vesiculam

guttulatam, $18-20 \approx 8-10$, desinentibus; sporulis oblongis, suballantoideis, deorsum acutioribus, $12-15 \approx 4-5$, guttulatis, hyalinis.

Hab. in ligno putrescente Carpini Betuli prope Bruxelles Belgii. — Forma paradoxa (lichenosa?) a genere Sphæronæmate valde recedens.

32. Sphæronæma decorticans Lèv. Ann. Sc. Nat. 1846, p. 280. — 1134 Stromatibus innatis, effusis, nigris, maculæformibus; peritheciis crassis, cylindricis, ½ mill. altis, rugosis, ostiolis obtusis, albicantibus pertusis; sporulis elliptico-linearibus, continuis, pellucidis, obtusis, perexiguis.

Hab. ad corticem Juglandis regiæ, Bagnolet. pr. Parisios. 1135
33. Sphæronæma fasciculatum Mont. et Fries Not. in Ann. Sc. Nat. 1834, 2, I., p. 346. — Peritheciis lageniformibus, basi connatis, apice divergentibus, nigris, globulo fugaci, livido.

Hab, in truncis Betulæ albæ in Arduennis. — Cfr. Sph. glomeratum.

34. Sphæronæma glomeratum Mont. (ubi?), Berk. et Br. North Amer. 1136 Fungi pag. 63. — Affine Sph. viticolo; sporulis minutis breviter oblongis; basidiis sursum breviter ramulosis.

Hab. in ramis quercinis in Carolina inf. Americæ bor. — «Species Montagnei adducta verisimiliter est Sph. fasciculatum, nam Sph. glomeratum in libris Montagnei invenire nequivi».

35. Sphæronæma piriforme Pers. Syn. p. 64. — Peritheciis late co- 1137 nicis, acutis, levibus; globulo ovali, deciduo, aterrimo.

Hab. in ligno exsiccato Querreus in Germania et Suecia. — Sparsum vel gregarium, pusillum, opacum, aterrimum, glaberrimum, basi dilatata adnatum, globulo semper opaco.

36. Sphæronæma subcorticale C. et E. in Grevillea. — Gregarium, 1138 hinc inde seriatum; peritheciis cylindraceis, atro-brunneis, apice obtusis; sporulis globosis, hyalinis, 8-9 \(\rho\). diam.

Hab. in cortice interiore Quercus, New Jersey America borealis.

37. Sphæronæma semipellitum Wallr. Crypt. n. 3682. — Peritheciis 1139 pachydermaticis, e basi ovata subcutanea, tegmine fibroso, fusco obducta, crassiore in verticem nudum, convexum, nigrum, nitidum, poro tenui pertusum abeuntibus eoque mamillari epidermidem permeantibus globulumque sporularum cinereum, caducum stillantibus.

Hab. ad caudices quercinos effossos languidos, ravius in Thuringia.

38. Sphæronæma Spinella Kalchbr. Bot. Zeit. 1862, p. 199. - Pe- 1140



ritheciis gregariis ex ovata basi subulatis, subincurvis, atris; globulo croceo; sporulis oblongo-cylindraceis (e polo globosis), hyalinis.

 $\it Hab.$ in ramis Salicis in Hungaria, Italia et Germania. — Teste Fuck. sistit spermogonium Cenangii saligni. — «Sporulæ in exemplaribus venetis cylindraceæ, curvulæ, $3 \approx 1$, basidiis simplicibus vel 2-3-furcatis suffultæ».

39. Sphæronæma Coryli Peck Rep. on St. Mus. N. York. — Peri- 1141 theciis cortice innatis, copiosis, minutis, leniter elevatis, truncatis, nigris, a matrice facile decedentibus; sporulis oblongis vel ellipsoideis, 13-14 μ. longis.

Hab. in ramis Coryli americanæ, West Albany Amer. bor. — Contextus facile comprimendus et sub vitro composito dilucide inspiciendus.

40. Sphæronæma coronatum Bon. Abh. Gebiete der Mykol. p. 143. 1142 — Peritheciis lageniformibus, nigrellis, profunde immersis, intus albidis, rostro longo cylindrico, apice prominente, dilatato et pilis curtis coronato; sporulis cylindricis, sublongis, obtusis.

Hab. in ligno pineo denudato in Germania.

41. Sphæronæma Acrospermum (Tode) Fr. S. M. II. p. 537, Sphæria 1143 Acrospermum Tode Meckl. f. 119. — Peritheciis cylindrico-ventricosis, levibus, nigris, globulo obsoleto, sordide flavicante.

Hab. in ligno A bietis et quercino in Germania. — Sparsum, ½-1 lin., vix fuscescens, et macula illa atramentosa lignum circa singulum tingens colorem prodit aperte fuscum. Forma inter cylindricam et obovatam per varios vacillat gradus, plerumque e tereti sursum subventricosa. Apex astomus parabolicus nitet, ut plurimum imperforatus, in nonnullis distincte pertusus, in paucis etiam globulo parvo, sordide flavicante, luculenter coronatus.

42. Sphæronæma piliferum Sacc. Mich. II. p. 342, Sphæria pilifera 1144 Curr. Simpl. Sphær. n. 289. — Peritheciis gregariis, superficialibus, globulosis, exiguis, in ostiolum filiforme duplo longius productis; sporulis ovoideis, 3≈ 1/4, hyalinis, copiosissimis, mox ad apicem ostioli conglobatis.

Hab. in cortice interiore Pini in Gallia (THERRY). — Est spermogonium Ceratostomatis piliferi, cujus vero asci nondum innotuerunt.

43. Sphæronæma pithyum Sacc. Cenangii pithyii pycnidium Fuck. 1145 Symb. p. 269. — Peritheciis 4-6 coacervatis sparsisve, stipitatis, globoso-conicis, demum subtilissime perforatis, nigris, atris; spo-

rulis minutissimis cylindraceis, curvatis, in sterigmatum ramosorum ramulis brevissimis, continuis insidentibus.

Hab. in ramis siccis Pini silvestris prope Œstrich Rhenogoviæ.

44. Sphæronæma verrucosum Corda Ic. IV. p. 39, f. 111. — Peri- 1146 theciis minutis, gregariis, utriculiformibus, erectis, plus minus prope medium irregulariter contractis, atris, subcorneis, verrucis majusculis exasperatis; globulo minuto albo; sporulis minutissimis oblongis, hyalinis.

Hab. in asseribus pineis putrescentibus, Reichenberg Bohemiæ.

45. Sphæronæma Fuckelii Sacc. Cfr. Fuck. Symb. App. I. p. 300. — 1147 Peritheciis cylindricis, gracilibus, levibus, nigris, apice acutis; sporulis cylindraceis, 6 ≈ 2, hyalinis.

Hab. in ligno putri Pini silvestris in Germania. — Ad Ceratostomellam multirostratam Syll. I. p. 411, uti spermogonium, spectat.

- 46. Sphæronæma colliculosum Fr. S. M. II. p. 540. Peritheciis 1148 complanatis, ellipticis, inæqualibus, scabrosis, atris; globulo fugaci, candido.
 - Hab. in lignis denudatis pineis in Suecia. Cfr. Coniothy-rium colliculosum. Sparsum, innatum, lignum peculiari medo colliculosum reddens, raro globulo instructum, depressum, opacum, scabroso-pulverulentum.
- 47. Sphæronæma ovoideum Dur. et Mont. F. Alg. p. 581. Peri- 1149 theciis erectis vel inclinatis, ¹/₄ mill. alt., ovoideis, seriatis, atris, opacis, poro pertusis; sporulis subglobulosis, minutissimis; globulo non viso.

Hab, ad ramos Ephedræ altissimæ, Oran Algeriæ (Durieu).

48. Sphæronæma truncatum Fr. S. M. II. p. 539, Sphæria cylindrica 1150 A. S. Lus. p. 50. — Peritheciis cylindricis, crassis, truncatis, nigris; globulo prominente candido.

Hab. ad ligna pinea et abiegna in Suecia, Germania et America boreali. — A Sph. cylindrico abunde diversum, multoties majus, firmius, longitudine diametrum paulo superante, globulo majore deciduo, apice truncato-umbilicatum. Primo ligno subinnatum, dein emergendo elevatum.

49. Sphæronæma parabolicum (Tode) Fr. S. M. II. p. 538, Sphæria 1151 parabolica Tode Meckl. 43, f. 115, Nees Syst. f. 245, A. — Peritheciis elongato-conicis, levibus, nigris; globulo prominulo livido.



Hab. in lignis putridis in Germania. — A Todeo dicitur «tenellum gelatinosum»: an ergo Sphæronæmella? — Aggregatum, non nisi oculo armato contemplabile, înferne fuscum, apice perforatum, globulo lurido-livido.

50. Sphæronæma penicillatum B. et C. North Amer. Fungi n. 399. 1152 — Peritheciis elongatis, ventricosis, e basi orbiculari oriundis, collo longo penicillato.

Hab. in ligno emortuo in Carolina inf. Amer. bor.

51. Sphæronæma Rhamni Sacc. Dothioræ Rhamni pycnidium Fuck. 1153 Symb. p. 276. — Peritheciis (in Dothiora Rhamni parasiticis) gregariis, minutissimis, globoso-conicis, aterrimis; sporulis minutissimis cylindraceis, curvulis, continuis, hýalinis, 4 = 1-1,5.

Hab. in ramis siccis Rhamni Frangulæ prope Estrich

Rhenogoviæ.

52. Sphæronæma conicum (Tode) Fr. S. M. II. p. 538, Sphæria co- 1154 nica Tode Meckl. f. 116. — Peritheciis conicis, acutis, nigris; globulo sphærico, deciduo, flavo, atrescente; sporulis minutis, globosis ovatisve, hyalinis.

Hab. ad ligna et ramos Fagi, Abietis, Pruni, Rhamni in Suecia et Germania. — Sec. Fuck. spermogonium Lasiosphæriæ ferrugineæ. — Exiguum, subgregarium, passim irregulare, junius tomento subraro livido obsitum, quod etiam in speciminibus suecicis observatur. Guttula globosa, primo pellucida, antequam decidit, nitidissima, sæpius destitutum reperitur.

53. Sphæronæma pistillare Wallr. Fl. Crypt. n. 3680. — Peritheciis 1155 elongatis, strictis, rigidis, atro-piceis, nitidis, e basi tenui sensim in apicem incrassatis clavatis v. pistillaribus, vertice attenuato, poro exilissimo pertusis.

Hab. in rimis arborum e. g. Tiliæ, Pruni, rafius in Thuringia.

54. Sphæronæma Robiniæ B. et C. North Amer. Fungi n. 405. — 1156 Peritheciis liberatis subglobosis, ostiolo brevi truncato, primum pruinoso; sporulis hyalinis, oblongis, utrinque obtusis, 15 μ . long.

Hab. in ramis Robiniæ et Tiliæ in montibus Virginiæ et New York Amer. bor.

55. Sphæronæma ventricosum (Ach.) Fr. Obs. p. 188, t. II. f. 8, Ca-1157 licium ventricosum Ach. — Peritheciis elongatis, simplicibus, compressis, medio ventricosis, nigris, globulo minuto, punetiformi, cinereo; sporulis fusoideis, curvulis, guttulatis vel non, hyalinis.

Hab. ad cortices arborum e. g. Tiliæ, Pruni in Lusatia. -

Gregarium, vix lineam longum, basi et apice angustatum, medio vel superne ventricoso-compressum, glabrum, opacum, apice apertum, tenuissime marginatum, globulo incluso discum minimum cinerescentem offerente.

56. Sphæronæma rostratum Fuck. Symb. p. 399. — Peritheciis ple-1158 rumque semiimmersis, gregariis, globosis, cum rostro cylindraceo, perithecium subæquante, perforato, apice globulum candidum gerente; sporulis minutissimis, ovatis, hyalinis.

Hab. in palis putridis in vineis prope Œstrich Rhenogoviæ.

57. Sphæronæma cornutum Preuss F. Hoyersw. n. 144. — Gregarium 1159 superficiale, atrum, epixylinum; peritheciis subglobosis, atris, floccis sparsis tectis, collo longissimo, cylindrico, supra fibroso, nucleo subalbo, globulo subalbo; sporulis ovatis, nucleatis, guttulis repletis.

Hab. in ramis arborum frondosarum decorticatis, dejectis, Hoyerswerda.

58. Sphæronæma æmulans B. et Br. Ann. N. H. n. 1378, tab. VII. 1160 fig. 2. — Peritheciis subgloboso-rostratis; 1¹/₂ altis, e mycelio sparso surgentibus, collo apice ciliato; sporulis perexiguis, globulosis, 2,5-2,7 μ. diam., oscillantibus.

Hab. in lignis, Epping Forest Britanniæ.

59. Sphæronæma cernuum (Pr.) Sacc. Sphærocista cernua Preuss 1161 F. Hoyersw. n. 36. — Gregarium, superficiale, atro-fuscum, epi-xylum; peritheciis globosis, asperis; collo cylindrico flexili; nucleo subalbo; guttula pallida; basidiis filiformibus; sporulis cylindricis, subcurvatis, continuis, albis.

Hab. in ramis frondosis decorticatis, Hoyerswerda.

60. Sphæronæma sphæricum Preuss F. Hoyersw. n. 286. — Grega- 1162 rium; peritheciis subglobosis, atris, ligno subinsidentibus; ostiolis minutis subacutis; globulo seu cirro minuto fusco; sporulis oblongis, utrinque obtusis, subalbis.

Hab. in ligno nudo subputrido betulino, Hoyerswerda.

B) In Dicotyledoneis herbaceis.

61. Sphæronæma corneum C. et Ell. in Grevillea. — Sparsum, corneum; peritheciis cylindraceis, centro turgidis, apice rotundatis; sporulis linearibus, rectis, hyalinis, minutis, 8 μ. longis.

Hab. in caule Enotheræ, New Jersey Amer. bor.

62. Sphæronæma heteromorphum Dur. et Mont. Fl. Alg. p. 581. — 1164 Sphæriæforme; peritheciis innato-tectis, gregariis, depressis, intus albo-farctis, ½ mill. crass., 150 μ. alt., ostiolo prominulo, acuto, 200 $\mu.$ alto instructis; globulo opalino; sporulis lineari-oblongis, $10\approx2\text{--}3,\ \mathrm{hyalinis}.$

Hab. ad caulem herbæ cujusdam ad Bouzareah prope Alger (Durieu). — «An Phoma?».

63. **Sphæronæma lageniforme** Speg. Fung. Arg. I. p. 34. — Peri- 1165 theciis laxe gregariis, lageniformibus, in ligno decorticato basi insculptis, atris, in collum elliptico capitatum pellucidum, e muco sporigero exsiliente subviscosum elongatis, contextu prosenchymatico, fuligineo; sporulis minutissimis, 2 ≈ 1, ellipticis vel ovoideis, hyalinis, in sterigmatibus filiformibus, 7-8 ≈ ½, hyalinis, acrogenis.

Hab. in ramulis emortuis dejectis Solani bonariensis in

Argentina Amer. merid.

64. Sphæronæma Geranii Ces. Bot. Zeit. 1848, p. 294. — Peritheciis 1166 epiphyllis, superficialibus, ovoideis, superne hispidis gregariis (tunc circinantibus, tunc ad nervos diffusis); sporulis subtruncatis, obtusis.

Hab. in foliis adhuc vivis Geranii rotundifolii, Brixiæ

Ital. bor. - "An Venturia?".

65. Sphæronæma deformans Berk. Gard. Chron. 1851, n. 36. — Pe- 1167 ritheciis elongatis, pluribus, in pustula pallida innatis; ostiolis emergentibus, exasperantibus; sporulis perexiguis, ellipsoideis, brevissime stipitatis, hyalinis.

Hab. in pag. inf. foliorum vivorum Eranthemi pulchelli

in hortis londinensibus.

66. Sphæronæma comatum Ces. Bot. Zeit. 1851, p. 646. — Solita- 1168 rium, superficiale, hypophyllum; peritheciis ovatis, basi applanatis, areolatis, membranaceis, nigrescentibus (primitus virentibus, semipellucidis), vertice pilis subulatis arrectis obsito; sporulis ovalibus. Hab. in foliis..... Vercelli Italiæ borealis.

67. Sphæronæma hispidulum Corda Ic. IV. p. 39, f. 112. — Peri- 1169 theciis gregariis, superficialibus, atris, utriculiformibus, dein irregularibus, rugulosis, infra nudis, collo elongato vel ventricoso, aculeis sparsis, rigidis obsito, globulo albo; sporulis fusoideis, acutis minutis, albo-hyalinis.

Hab. in caulibus et culmis herbarum putrescentibus, Prag Bohemiæ.

68. Sphæronæma subtile (Fr.?) Bonord. Abh. Gebiete der Mykol. p. 143. 1170 — Peritheciis membranaceis, parvis, nigris, sublevibus, hemisphæricis, subimmersis, subtus deplanatis et radicosis, primum globosis, brunneis, dein papillatis, demum rostratis et nigris, apice obtuso, poro pertuso.

Hab. in caulibus Urticæ in Germania.

69. Sphæronæma Preussii Sacc. Sphærocista rostrata Preuss Fung. 1171 Hoyersw. n. 39. — Peritheciis sparsis, nigris, e basi subglobosis, primo immersis, in collum cylindricum rectum exsertis; pulpa sporarum pallida; basidiis filiformibus; sporulis ovatis, continuis, albis. Hab. ad caules herbarum elatiorum. Hoverswerda.

C) In Monocotyledoneis, Acotyledoneis, inque tela etc.

70. Sphæronæma Caminus B. et C. Cub. Fungi n. 554. — Peritheciis 1172 carbonaceis, elongato-conicis, 2 mill. altis, basi confluentibus.

Hab. in caule putri Monocotyledoneæ cujusdam in Cuba.

- Sporulæ ignotæ, sed totus habitus Sph. Spinæ.

- 71. Sphæronæma epiglæum B. et C. North Amer. F. n. 401. Pe-1173 ritheciis globosis, innatis, in collum cylindricum sensim attenuatis.

 Hab. in Tremella quadam in America boreali.
- 72. Sphæronæma helicomyxa Fres. Beitr. 29 t. IV. f. 24-29. Pe- 1174 ritheciis e basi globosa in rostrum duplo longius, cylindraceum, apice subpenicillatum attenuatis, ¹/₂ mill. alt., nitide nigris; globulo compresso albo-hyalino; sporulis muco diu nidulantibus, perexiguis, ovato-oblongis, curvulis, 2,5-3 u. longis, hyalinis.

Hab. in fungis variis putredine decompositis atratisque vinoque mixtis et in capsula clausa diu servatis, in Germania.

73. Sphæronæma microscopicum Wallr. Fl. Crypt. n. 3671. — Pe- 1175 ritheciis conoideis, minutissimis, nigris, gregariis, e vertice truncato globulum sporophorum albidum transmittentibus.

Hab. ad velum Dædaleæ quercinæ putridæ in Thuringia.

74. Sphæronæma epimyces (Fr.) Berk. Outl. p. 315 Sphæria epimy- 1176 ces Fr. S. M. II. p. 499. Syll. II. p. 425. — Peritheciis gregariis, maculis purpurascentibus innatis, globosis, papillatis, nigris, nucleo albo; sporulis.....

Hab. in Corticio comedente emortuo in Suecia et Britannia. — «An Hypomyces sterilis?».

75. Sphæronæma lichenophilum Dur. et Mont. Fl. Alg. pag. 579. — 1177 Parasiticum, gregarium; peritheciis semiimmersis ovoideo-acuminatis, simplicibus, nigris, ostiolo acuto recto aut curviusculo instructis, nucleo albo; sporulis minutissimis oblongis, 5 = 2,5, hyalinis, oscillantibus.

Hab. in crusta Lecideæ can escentis ad truncos Chamæropis in summo monte Bouzaréah prope pagum in Algeria (Duraleu).



76. Sphæronæma Pteridis (A. S.) Fr. S. M. II. p. 540, Sphæria Pte- 1178 ridis A. S. Lus. p. 49, t. 10, f. 5. — Peritheciis subtuberculosis e badiofuscis, primum globoso-depressis, dein obconicis collabascendo obcordatis.

Hab. ad frondes Pteridis humi prostratis a nive vix dum soluta obtectis, in Germania. — Accedit ad Sclerotia, sed primo inventionis momento exempla nonnulla globulo spermatico albido fugacissimo coronata, $1^1/_2$ lin. alta, 1 lin. lata. «Ex icone potius discomyces mihi videtur».

77. Sphæronæma lintearium (Mont.) Sacc. Sphæria (Aposphæria) lin- 1179 tearia Mont. Fl. Chil., VII. p. 466, t. 10, f. 6 et Syll. n. 818. — Ceratostomum, sparsum, semiliberum; peritheciis subglobosis, atris opacis, tandem collapsis, ostiolo crasso, stricto, truncato; sporulis lineari-oblongis minimis.

Hab. in tela semicorrupta in Chile (GAY).

II. Næmosphæra Sacc. Sporulæ coloratæ.

78. Sphæronæma Magnoliæ Peck 26 Rep. p. 76. — Peritheciis spar- 1180 sis, erumpentibus, nigris, ostiolo spiniformi, 2-3 mill. alto; sporulis late ellipsoideis v. subglobosis, subinde 1-nucleatis, 10 μ. long. maturis coloratis.

Hab. in ramis Magnoliæ acuminatæ, Portville Amer. bor. Habitus Sph. Spinæ, sed sporulæ alienæ.

79. Sphæronæma ossis Pr. Hoyersw. n. 287. — Peritheciis globoso- 1181 conicis, subcorneis, atris, nucleo fusco-gelatinoso; sporulis ovatis fuscis, in medio unam guttulam oleosam minorem continentibus.

Hab. in ossibus subputrescentibus, Hoyerswerda.

III. Species nomine tantum notce.

- 80. Sphæronæma circinans Peyl Lotos 1858, p. 31. In Bohemia 1182 orientali.
- 81. Sphæronæma amenticolum Ces. Bot. Zeit. 1857, p. 173. A Ce- 1183 rat. pilifero affinibusque peritheciis immersis differt; sed sporulæ (ob immaturitatem) nullæ. In amentis, in cupulis pedunculisque Quercus pedunculatæ in Italia et Germania.
- 82. Sphæronæma concors Rav. Carol. II. n. 64.
- 83. Sphæronæma epicecidium Berk. in Hook. Kew Gard. Misc. I. 291, 1185 t. X. fig. B., Hook. Journ. (1851) p. 18.

 Hab. in gallis Caripi (Spruce) et Para (Home) in Brasilia.

CHÆTOPHOMA Cooke in Grevillea VII. p. 25 (Etym. chæle, seta et Phoma). — Perithecia membranacea, minutissima, superficialia, intra hyphas intricatas plerumque nidulantia; sporulæ minimæ, continuæ, hyalinæ, sæpe ovales vel ellipsoideæ. — Genus sistit verisimiliter spermogonia Asterinæ v. Meliolæ.

1. Chætophoma ilicifolia Cooke in Grev. t. 118, f. 3. — Hypophylla, 1186 fuliginea, maculæformis; hyphis byssinis ramulosis, intricatis, brunneis, ramulis adscendentibus, cladosporioideis; peritheciis brunneis, globosis, 70 μ . diam., sparsis; sporulis ellipticis vel ovalibus, hyalinis, $4 \approx 2.5$.

Hab. in foliis Ilicis opacæ in Carolina aust. Americæ borealis (RAVENEL).

2. Chætophoma quercifolia Cooke in Grevillea tab. 118, f. 1. — Hy- 1187 pophylla, effusa, fuliginea; hyphis byssoideis repentibus, $30-40~\mu$. diam., flexuosis, furcatis, intricatis, brunneis; peritheciis globosis, fuscis, gregariis vel sparsis; sporulis minimis, ovatis, hyalinis, $3 \approx 2$.

Hab. in foliis Quercus nigræ in Carolina austr. Americæ borealis (RAVENEL). — Affine C. ilicifoliæ sed perithecia minora et gregaria.

3. Chætophoma Catesheyi Cooke in Grev. t. 118, f. 2. Phoma Ca-1188 tesbeyi Thum. Flora, 1878, p. 179. — Hypophylla, fusca; hyphis byssoideis, ramosis, intricatis, brunneis, repentibus; peritheciis gregariis, foliorum paginam inferiorem omnino occupantibus, subglobosis, fuscis, 25-30 \(\mu\). diam.; sporulis sub-ovato globosis, hyalinis, 2,5 \(\mu\). diam.

Hab. in foliis Quercus Catesbeyi in Carolina infer. Amer. borealis (RAYENEL). — Sec. Thum. l. c. adsunt basidia brevissima, filiformia, hyalina.

4. Chætophoma atrella Cooke et Harkn. in Grev. 1880, p. 6. — Atra, 1189 effusa, velutina; hyphis erectis, simplicibus, flexuosis, cum conidiis ellipsoideis. 1-2-septatis; peritheciis globosis. 80-180 μ . diam., brunneis, membranaceis; sporulis minutis, ovatis, $4 \approx 3$.

Hab, in cortice Aceris macrophylli in California Amer. bor.

5 Chætophoma Catalpæ Cooke in Grevillea t. 118, f. 4. — Hypo- 1190 phylla, effusa, brunnea; hyphis byssoideis repentibus, flexuosis, ramulosis, paucis; peritheciis globosis, brunneis, 40-50 μ. diam.; sporulis subovatis, hyalinis, 2 ≈ 1,5.

Hab. in foliis emortuis Catalpæ cordifoliæ in Carolina austr. Amer. bor. — Hyphæ parciores, cladosporioideæ, conidiis 1-septatis.



6. Chætophoma fæda Sacc. Capnodii fædi spermog. Sacc. Syll. I. 1191 pag. 77. — Hyphis intricatis ramosis repentibus, septatis, fuligineis, hinc inde coalescendo dilatationes cellulares irregulares formantibus crustasque latas, atras, facile secedentes efficientibus; conidiis hinc inde inspersis ovoideo-fusoideis, 1-3-septatis, cladosporioideis; peritheciis ex hyphis oriundis globoso-depressis, 50 μ. diam., astomis vertice laciniatim dehiscentibus, contextu minute parenchymatico, fuligineo; sporulis sphæroideis, 3-4 μ. diam., hyalinis, 1-guttatis.

Hab. in foliis ramulisque vivis junioribus Nerii Oleandri in Italia, Lusitania, Austria, America boreali.

7. Chætophoma Penzigi Sacc. Meliolæ Penzigi pycnid. Penz. F. agrum. 1192 p. 18, fig. 1134. — Hyphasmate capnodiaceo atro; peritheciis globulosis, mycelio nidulantibus, atris, minute pertusis, basi hyphis intricatis cinctis, sursum inermibus v. setosis; sporulis ellipsoideis, biguttulatis, hyalinis, $5-6 \approx 2.5$.

Hab. in foliis vivis Citrorum, morbo Morfea dicto affecto-

rum, in Italia bor., Gallia etc., socia Meliola.

8. Chætophoma Citri Sacc. Meliolæ Citri pycnid. Penz. F. agrum. 1193 p. 17, f. 1132. — Hyphasmate capnodiaceo atro; peritheciis in eodem nidulantibus, globulosis, exiguis, hyphis intricatis cinctis, sursum inermibus v. setulosis, atris; sporulis oblongis, 3,5-5 = 2-2,5, hyalinis, demum cirrose expulsis.

Hab. in foliis vivis Citrorum, morbo Cenere affectorum, in

Sicilia, socia Meliola.

9. Chætophoma fusca Karst. Hedw. 1884, p. 60. — Subiculo late ef- 1194 fuso, fusco; peritheciis subiculo leviter immersis, sphæroideis, subastomis, nitentibus, 2 ν . lat.; sporulis botuliformibus, curvulis, hyalinis, $3-4 \approx 0.5-1$.

Hab. supra lignum pineum induratum ad Aboam Fenniæ.

10. ? Chætophoma Georginæ (Corda) Sacc. Sph. Georginæ Corda Ic. 1195 III. p. 27, f. 72. — Cæspitibus aterrimis, irregulariter expansis; peritheciis confertis, obovatis v. mamillatis, pilis dein longis, ramosis, fuscescentibus, septatis tectis, coriaceis, nigricantibus, ostiolo papillato, globulo albido; sporulis minutissimis ovoideis, hyalinis, 5-7 µ. longis.

Hab. in caulibus putridis Georginarum in hortis Pragæ Bohemiæ. — «An Pyrenochæta?».

11. Chætophoma myriospora Cooke Grev. XII. p. 24. — Sparsa, fusca; hyphis erectis simplicibus, septatis, conidiis macrosporoideis, 1196

clavatis, $40 \approx 13$; peritheciis globoso-depressis, minimis, 50μ . diam., membranaceis; sporulis ellipsoideis, minutis, hyalinis, $3 \approx 1$.

Hab. in caulibus Delphinii in Carolina inf. Amer. bor.

12. Chætophoma anthelmintica Cooke Grev. t. 119, f. 5, — Epiphyl- 1197 la, atro-fuliginea; hyphis byssoideis repentibus, brunneis, ramulosis, ramulis conidiiferis, erectis, cladosporoideis; peritheciis globoso-depressis, brunneis, 100 μ . diam.; sporulis arcte ellipticis, obtusis, hyalinis, $7 \approx 3$.

Hab. in foliis languidis Chanopodii anthelmintici in

Carolina austr, Amer. bor. (RAVENEL).

13. Chætophoma Musæ Cooke Grev. XII. p. 24. — Effusa atro-fusca, 1198 pannosa; hyphis intertextis, cladosporioideis (*Cladosporium pannosum* Cooke); peritheciis globoso-depressis, membranaceis, fuscis, 80 μ . diam.; sporulis ellipsoideis, hyalinis, $4 \approx 2$.

Hab. in foliis Musæ in Carolina inf. Amer. bor.

14. Chætophoma Sabal Cooke Grev. XII. p. 24. — Sparsa, fusca, ve- 1199 lutina; hyphis conidiisque ut in *Macrosporio*; peritheciis subglobosis, membranaceis, fuscis, 100 μ . diam.; sporulis ellipsoideis, hyalinis, $4 \approx 1.5$.

Hab. in Sabal in Carolina inf. Amer. bor. (RAVENEL).

15. Chætophoma Cycadis Cooke Grev. t. 119, f. 6. — Hypophylla, $_{1200}$ maculiformis, sparsa, brunnea; hyphis byssoideis ramosis, repentibus, ramulis conidiiferis assurgentibus, macrosporoideis; peritheciis lageniformibus, superne attenuatis, fuscis, $150 \approx 90$; sporulis ellipticis, hyalinis, $5 \approx 3$.

Hab. in foliis Cycadis in Carolina austr. Amer. bor., socio Macrosporio communi (RAVENEL). — Sporulæ ex apice perithecii

cirrose exsilientes.

ASTEROMA DC. Mem. Mus. III. p. 329, 336, Fr. S. M. II. p. 602 (Etym. aster ob fibrillas radiantes). — Perithecia minima, globulosa, prominula, conferta, subconfluentia, ambitu maculiformi, fibrillis innatis subradiato. Sporulæ (in typicis) continuæ, hyalinæ, ovoideæ v. breve cylindraceæ. — Multæ adsunt species sporulis v. peritheciis adhuc ignotis, quæ in appendicem traduntur.

I. Eu-Asteroma.

Perithecia et sporulæ cognita.

1. Asteroma Padi Grev. Loud. Hort. p. 459. Fr. Elench. II. p. 151. 1201 Berk. in Ann. N. H. n. 201, t. 11, f. 4. Actinonema Padi Fr. Sum-



ma Veg. p. 424. - Epiphylla, macularis, fibrillis confluentibus radiantibus, rufescentibus, apice pallidis; peritheciis innatis fuscescentibus; sporulis perexiguis, cylindraceis, curvis, utrinque rotundatis, hyalinis.

Hab. in foliis Pruni Padi in Gallia, Britannia, Germania et Belgio. — Sec. Rud. in Linnæa IV. p. 117, macula violaceo-fusca; fibrillæ pulcherrime fruticuloso-ramosæ, flabelliformiter expansæ, longissimeque radiatæ, media linea alba spinulosa percursæ; perithecia minutissima conferta. «Habitus potius Actinonematis sed sporulæ, quantum video, continuæ».

2. Asteroma cerasicolum Sacc. A. Cerasi Cooke Grev. XII. p. 24 1202 nec Desm. - Hypophyllum; maculis orbicularibus, radiantibus, atris; peritheciis parvulis, applanatis, mycelio fusco insidentibus; sporulis ovalibus, continuis, hyalinis, $4 \approx 2$.

Hab. in foliis Cerasi Caroliniensis in Carol. inf. Amer. bor.

3. Asteroma Rubi Fuck. Symb. p. 384 (Actinonema). - Peritheciis 1203 punctiformibus, gregariis, applanatis, subtilissime perforatis, atris; fibrillis repentibus, subadscendentibus, subtilissimis, ramosis, fuscoolivaceis; sporulis minutissimis, globosis, hyalinis.

Hab. in sarmentis vivis Rubi Idæi in Jura Helvetiæ (Mor-THIER).

4. Asteroma geographicum (DC.) Desm. Ann. Sc. not. 1841, p. 139. 1204 Sphæria geographica DC. Fl. Fr. VI. pag. 139. - Epiphyllum, atrum, macula nulla; peritheciis orbiculatis planis, lineolis nigris flexuosis insidentibus, picturam catenuliformem serpentinam mentientibus; sporulis oblongis, 20 p. longis, guttulatis.

Hab. in foliis Cratægi Ariæ, C. torminalis, Pruni lusitanicæ, P. serotinæ virginianæ, Piri, Mali, Nyssæ in Gallia, Germania, Italia et America boreali. - Lineolæ mappam geographicam referent, circumscribunt plerumque plura individua; perithecia perexigua, disciformia.

5. Asteroma atramentarium Berk. N. Am. F. n. 456, - Nigerrimum, 1205 compactum, expansum; floccis radiantibus reticulatis; peritheciis minutis; sporulis brevibus, subcymbiformibus, 12 v. longis.

Hab, in foliis Amelanchieris et Piri arbutifoliæ in Carolina infer. Amer. bor.

6. Asteroma Fuckelii Sacc. Asteroma atramentarium Fuck. Symb. 1906 p. 384, nec Berk. - Stromate adnato, repente, fibrilloso, aterrimo; peritheciis numerosis, minutissimis, planis, subcupulatis, concoloribus; sporulis minutis, globosis.

Hab. in pag. inferiore foliorum Populi monilioidis, et P. Tremulæ, quæ interdum penitus fere atrantur, in Germania et Sibiria.

Asteroma punctiforme Berk. N. Am. F. n. 455. — Punctiforme; 1207 floccis radiantibus tenerrimis; sporulis simplicibus cymbiformibus, 3-4 nucleatis.

Hab. in foliis Rosarum in America boreali.

8. Asteroma Haussknechtiæ Cooke, Grev. 1880, p. 13. — Peritheciis 1208 atris, minimis, in maculas nigras irregulares congestis; sporulis arcte ellipticis, hyalinis, 6 μ. longis.

Hab. in foliis languidis Haussknechtiæ, Luristan Persiæ (Haussknecht). — «An Asteromella?».

Asteroma Liriodendri Cooke, Grev. XII. p. 25. — Amphigenum; 1209
maculis parvulis, suborbicularibus, fuligineis; peritheciis convexis,
atris; sporulis minutissimis, ovalibus, hyalinis, 1,5 ≈ 1.

Hab, in foliis Liriodendri in Carolina infer. Amer. bor.

10. Asteroma tinctorium Cooke, Grev. XII. p. 25. — Epiphyllum; 1210 maculis suborbicularibus, atro-cinereis; peritheciis irregularibus, applanatis, 100 μ . diam., atris; sporulis ovato-ellipticis, hyalinis, $2 \approx 1$.

Hab. in foliis Quercus tinctoriæ in Carol. inf. Amer. bor.

11. Asteroma Hedysari Thum. Pilzfl. Sibir. n. 608. — Maçulas magnas, plus minusve orbiculatas, obscure griseas, epiphyllas formans; fibrillis dilute fuscidulis, ramulosis, tenuibus; peritheciis
minutis, dense congestis, hemisphæricis, atris, numerosis; sporulis
rarissimis, minutissimis, cylindraceis, achrois, utrinque obtusis, 3 ≥ 1.

Hab. in foliis vivis et languidis Hedysari setigeri pr. Minussinsk Sibiriæ asiaticæ.

12. Asteroma Hyperici Lasch Hedw. 186, p. 158. — Peritheciis subro- 1212 tundis nigris, nucleo albo farctis, floccis radiantibus, subviridi-cinerescentibus innatis, ostiolo obsoleto; sporulis oblongis.

Hab. in caulibus emortuis Hyperici perforati et attenuati pr. Driesen (Lasch), Œstrich (Fuckel), Minussinsk Sibiriæ (Мактіалогг).

13. Asteroma Martianoffianum Thum. Pilzfl. Sibir. n. 429. — Fibril- 1213 lis aterrimis, nitidis, in foliorum nervis congestis et delineationem dendriticam formans, explanato-effusis, hypo-raro etiam epiphyllis; peritheciis numerosis, plerumque sublinearibus, sparsis; sporulis cylindraceo-ellipticis, utrinque rotundatis, hyalinis, simplicibus, 5 ≈ 2.

Hab. in graminosis ad folia viva Mulgedii sibirici prope Minussinsk Sibiriæ asiaticæ.

14. Asteroma radiatum Fuck. Symb. p. 385. — Peritheciis in macu- 1214 læ exaridæ centro congestis, applanatis, minutissime papillatis, aterrimis; sporulis minutissimis, cylindraceis, curvatis, hyalinis.

Hab. in foliis adhuc vivis Dentariæ pentaphyllæ in Jura Helvetiæ (Morthier).

15. Asteroma Alliariæ Fuck. Symb. 385. — Fibrillis aterrimis, niti- 1215 dis, primariis in foliorum nervis dense congestis, secundariis subtilissime fasciculato-ramosis; peritheciis ad fibrillas secundarias erumpentibus, mollibus, hemisphæricis, astomis, fuscis; sporulis parvis, simplicibus, cylindraceis, hyalinis.

Hab. in foliis radicalibus viventibus Erysimi Alliariæ in

silva Grossgerau Germaniæ.

16. Asteroma Dianthi Cooke et Harkn. Grev. 1881, p. 84. — Ma- 1216 culis irregularibus, cinereis; peritheciis convexis; hyphis tenuibus, fuscis, radiantibus; sporulis minimis, hyalinis, ellipticis, 5-6 ≥ 2.

Hab. in caulibus foliisque Dianthi in California Amer. bor.

II. Asteromata dubia.

Sporulæ et subinde ipsa perithecia adhuc ignota.

A) In Dicotyledoneis lignosis.

17. Asteroma vagans Desm. XIV. Not. p. 36. Ast. Tilice Rud. in 1217 Linnæa IV. p. 514. — Maculis amphigenis brunneis, siccis cinereis, orbiculatis, fibrillis tenuissimis, articulatis, ramosis, divaricatis, quoquoversus irregulariter radiantibus, epidermide tectis, articulis fibrillarum diametro suo sesquilongioribus; peritheciis sparsis exiguis, globosis, nigris semiemergentibus, circ. 50 μ. diam.

Hab. in foliis languidis Tiliæ, Carpini, Viburni Opuli, Populi Tremulæ, Syringæ vulgaris, Frangulæ in Gallia, Italia, Germania. — Fibrillæ sec. Rodulphi articulato-constri-

ctæ, valde notabiles.

18. Asteroma frigidum Sacc. Mich. II, p. 369. — Fibrillis radianti- 1218 bus copiosis, tenuibus, maculas subcirculares, 2-4 mill. diam., cinereo-nigricantes amphigenas efficientibus; peritheciis (vacuis) intermixtis, punctiformibus.

Hab. in foliis, hieme frigidissimo 1879-80 necatis, Evonymi japonici, Padova, Treviso, Firenze Italiæ et Rouen Galliæ.

19. Asteroma inflatum Rob. et Desm. 18 Not. p. 6. — Amphigenum; 1219 maculis griseo-cinereis, subrotundatis, sparsis vel confluentibus e

fibrillis innatis, inflatis aut nodosis radiantibus; nodulis seriatis sæpius oblongis, plus minusve approximatis; peritheciis non observatis.

Hab. in foliis deciduis Evonymi latifolii in Gallia.

20. Asteroma nitidum Desm. 9 Not. p. 22. — Epiphyllum, atrum, ni- 1220 tidum, rotundum, maculiforme, margine radiosum; peritheciis parum conspicuis, innatis, sparsis, subseriatis.

Hab. in foliis vivis Rhamni Alaterni in Gallia.

21. Asteroma comptum Rob. et Desm. 26 Not. p. 349. — Epiphyllum; 1221 maculis amphigenis, cinereis, magnis, suborbiculatis, dein irregularibus et confluentibus; fibrillis epiphyllis, elongatis, compressiusculis, dichotomis, apice fasciculatis, primo albidis, dein piceo-nigris, in ambitu radiatis; peritheciis seriatis vix conspicuis.

Hab, in foliis siccis Viburni Lantanæ in Gallia.

22. Asteroma dendriticum Desm. 16 Not. p. 349. — Epiphyllum, ma- 1222 gnum, nigrum, rotundatum, maculiforme; fibrillis articulatis, brunneis, elongatis, ramosissimis, e centro radiantibus; ramis divaricatis; ramulis subfastigiatis, quandoque fasciculatis; peritheciis seriatis vix conspicuis.

Hab. in foliis siccis et vetustis Viburni Opuli in Gallia et
 Germania. — Sphæria? dendritica Wallr. Fl. Grypt. n. 3912

huc verisimillime spectat.

23. Asteroma Loniceræ Desm. Ann. Sc. nat. 1840, p. 10. — Peri- 1223 theciis microscopicis, globulosis, nigris, centralibus; maculis orbicularibus, opace nigricantibus, 3-5 mill. diam.; fibrillis radiantibus, nodulosis (ob perithecia?).

Hab. in pag. sup. foliorum emortuorum Loniceræ Peri-

clymeni in Gallia et Belgio.

24. Asteroma Laureolæ Chev. Fl. Par. I. p. 448. — Subrotundum 1224 foliumque pallide decolorans; fibrillis innatis; peritheciis minutis confertissimis, ad ambitum maculæ seriatis.

Hab. in pagina superiore foliorum Daphnes Laureolæ in Gallia.

25. Asteroma Mespili Rob. et Desm. 18 Not. p. 6. — Amphigenum; 1225 maculis brunneis, sparsis, sæpe rotundatis, e fibrillis innatis ramosis centrifugis formatis; ramis numerosis divaricatis; peritheciis paucis, minutissimis, nitidulis.

Hab. in foliis siccis Mespili germanicæ in Gallia. — F. Eriobotryæ Thüm. F. Lit. n. 174. In foliis subvivis Eriobotryæ

japonicæ, Gorizia.

26. Asteroma Pyracanthæ Desm. 24 Not. p. 15 (Asterina). — Am- 1226 phigenum, maculis minutis, brunneis; fibrillis vix distinctis epidermide tectis; peritheciis innatis exilissimis, nigris, nitidis, numerosis, in series dispositis; sporulis non visis.

Hab. in foliis vivis, dein exsiccatis, Mespili Pyracanthæ in Gallia.

27. Asteroma Cerasi Rob. et Desm. 24 Not. p. 16. — Amphigenum; 1227 maculis sparsis vel approximatis, minutis, rotundatis, e fibrillis innatis, nigris, ramosis; ramis dichotomis, rectis, radiantibus; peritheciis non observatis.

Hab. in foliis siccis Cerasi in Gallia. — Affine Asteromati Mespili et Virgiliæ. — β . ramulicolum Sacc. Mich. In ramulis Cerasi in Normandie (Malbranche). Fibrillæ eximie radiato-fimbriatæ, articulis fuscidulis, guttulatis.

28. Asteroma Mali Desm. 8 Not. p. 13. — Epiphyllum, minimum, 1228 rotundum, maculiforme, griseo-nigrum; fibrillis tenuissimis, margine vix distinctis.

Hab. in foliis Mali in Gallia et Italia boreali.

29. Asteroma? Piri Rob. et Desm. 24 Not. p. 17. — Maculis brun- 1229 neolis, sparsis; fibrillis radiantibus nigris, nitidulis, ramulosis, flexuosis, parce intertextis, sursum leniter crassioribus; peritheciis ignotis.

Hab. in foliis Piri communis in Gallia.

30. Asteroma Punicæ (Mont.) Sacc. Sphæria Punicæ Mont. Ann. Sc. 1230 Nat. 2. I. et Syll. n. 869, p. 345. — Hypophyllum; peritheciis innato-prominulis, minimis, nigris, astomis, maculas orbiculares stromate fibrilloso-radiato innato cinereas, demum nigras efformantibus.

Hab. in foliis delapsis Punicæ Granati circa Perpinianum Galliæ.

31. Asteroma alpinum Sacc. Mich. II. p. 300. — Maculis minutis, sub- 1231 cutaneis, atris, ex hyphis radiantibus efformatis; hyphis ramosis toruloso-septatis, fuligineis, articulis nucleatis, $10-20~\mu$. diam.

Hab. in foliis Arctostaphyli alpinæ, Cadore Italiæ borealis (S. Venzo).

32. Asteroma circinans Desm. 17 Not. p. 26. — Epi- rarius hypo- 1232 phyllum; maculis minutis, orbiculatis, fuscis vel griseis, dein brunneis, sparsis, distinctis, quandoque confluentibus; fibrillis innatis, tenuissimis, sæpe inconspicuis, evanidis; peritheciis perexiguis, nigris, subnitidis, globosis, circinantibus.

Hab. in foliis vetustis Phillyreæ in Gallia, Austria et Ita-

lia boreali. — Sec. ipsum auctorem l. c. Ast. Castaneæ utpote hujus varietas censendum est.

33. Asteroma Diospyri (Schw.) Sacc. Xyloma Diospyri Schw. Carol. 1233 n. 272. — Epiphyllum, tenuissimum, opacum, atrum; peritheciis minutissimis in maculam substellatam confluentibus.

Hab. in foliis junioribus Diospyri virginianæ in America boreali. — Maculæ 2-3 unc. latæ multoties minores v. in folio vivo planæ expansæ, in sicco impressæ, concavæ. Color quam maxime ater et opacus; pagina inferior fuscescit.

34. Asteroma Aceris Rob. et Desm. Nouv. Not. X. p. 33. — Am- 1234 phigenum, maculiforme; fibrillis tenuissimis, rufo-brunneis, ramosis, flexuosis, quoquoversus irregulariter radiantibus; peritheciis sparsis, nigris, globosis, semi-emergentibus.

Hab. in foliis siccis Aceris campestris in Gallia.

35. Asteroma Corni Desm. Nouv. Not. X. p. 33. — Epiphyllum; ma- 1235 culis fuscis, suborbiculatis vel irregularibus et confluentibus; fibrillis innatis, fuscis, ramosis, e centro radiantibus; ramis brevioribus. divaricatis; peritheciis seriatis, vix conspicuis.

Hab. in foliis languescentibus Corni sanguineæ in Gallia et Helvetia.

36. Asteroma obscurum Desm. XIX. Not. p. 8. — Maculis epi- raro 1236 hypophyllis, atris, sæpe magnis, suborbiculatis, subinde confluentibus, fibrillis innatis, numerosis, confusis, fusco-nigris, ramosis; ramis ambitu radiatis; peritheciis minutissimis vix distinctis.

Hab. in foliis semiputridis Corni sanguineæ in Gallia, Germania et Helvetia.

37. Asteroma rhoinum Dur. et Mont. Fl. Alg. p. 610. — Amphigenum; 1237 maculis orbiculatis, tandem confluenti-crustaceis, atro-fuscis, inquinantibus; fibrillis a centro radiantibus laxe dichotomis simplici multiplicique serie cellularum formatis, apice dilatatis; peritheciis numerosis tenuibus; sporulis.....

Hab. in foliis siccis Rhois coriariæ, Bouzaréah Algeriæ (Durieu) et in Istria (Bolle).

38. Asteroma confervoides Grogn. Crypt. Saon. p. 126. — Macu- 1238 lis confertis, olivaceis; fibrillis brevibus, regularibus, confervoideis, densis.

Hab. in ramulis vivis Lycii in Gallia. — Inter A. delicatulum et A. tenerrimum medium videtur.

39. Asteroma umbonatum Desm. 24 Not. p. 14 (Asterina). — Epi- 1239 phyllum; maculis minutis, fusco-brunneis, sparsis, rotundatis, dein

confluentibus; fibrillis tenerrimis, ramosis, sinuosis, radiantibus, epidermide umbonata semper tectis; peritheciis non observatis.

Hab. ad folia delapsa Ribis alpini in Gallia.

40. Asteroma Virgiliæ Rob. et Desm. 18 Not. p. 5. — Amphigenum; 1240 maculis numerosis, minutis, orbiculatis, castaneis vel rufis e fibrillis innatis, ramosis, radiantibus; ramis brevibus; peritheciis non observatis.

Hab. in foliis siccis Virgiliæ luteæ cultæ in Gallia.

41. Asteroma Betulæ Rob. et Desm. Nouv. Not. (X.) p. 35. — Am- 1241 phigenum maculiforme; fibrillis innatis, brunneis, ramosis e centro radiantibus; ramis numerosis, apice divergentibus; peritheciis erumpentibus, sparsis, minutissimis, nigris.

Hab. in foliis deciduis Betulæ in Gallia et Belgio.

42. Asteroma Castaneæ Desm. 9 Nouv. Not. (X.) p. 34. — Epi- ra- 1242 rius hypophyllum; maculis brunneis; minutis, orbiculatis, sparsis, distinctis vel confluentibus; fibrillis innatis, tenuissimis, evanidis, vix conspicuis, ramosis e centro radiantibus; peritheciis numerosis, perexiguis, nigris, subnitidis, sparsis, quandoque circinantibus.

Hab. in foliis vetustis Castaneæ in Gallia.

43. Asteroma Capreæ Desm. 14 Not. p. 34. — Epiphyllum; maculis 1243 magnis, irregularibus, fusco-fuligineis; fibrillis innatis, piceo-nigris, ramosis, e centro radiantibus; ramis numerosis, effusis, compressiusculis; peritheciis ignotis.

Hab. in foliis languescentibus Salicis Capreæ in Gallia et Germania.

44. Asteroma Salicis Rob. et Desm. Nouv. Not. (X.) p. 35. — Epi- 1244 phyllum; macufis cinereis vel plumbeis; fibrillis innatis, nigris, ramosis, e centro radiantibus; ramis brevioribus, divaricatis, subfastigiatis, apice compressiusculis dilatatis; peritheciis ignotis.

Hab. ad folia decidua Salicis Capreæ, vitellinæ et albæ in Gallia, Belgio, Austria et Italia boreali.

45. Asteroma Populi Rob. et Desm. 14 Not. p. 35. — Epiphyllum; 1245 maculis nullis vel albidis, minutis, suborbiculatis, numerosis, sæpe confluentibus; fibrillis tenuissimis, brevibus, densis, ramosis, fusconigris, e centro radiantibus; peritheciis ignotis.

Hab. in foliis siccis Populorum in Gallia, Belgio et Lusitania.

46. Asteroma Populorum Fuck. Symb. p. 384 (Actinonema), Asteroma 1246 Populi Desm.? — Peritheciis gregariis, Sphærellæ punctiformis magnitudine, hemisphæricis, astomis, nitidis, aterrimis; fibrillis tenuissimis, liberis, radiantibus, olivaceis; sporulis nondum visis.

 ${\it Hab}$. in foliis præcipue ad pag. sup. Populi Tremulæ in Rhenogovia.

47. Asteroma angulatum Desm. 24 Not. p. 14 (Asterina). — Am- 1247 phigenum; maculis minutis, irregulariter rotundatis, angulatis, siccis griseo-cinereis, humidis brunneis, e fibrillis vix conspicuis, tenerrimis, ramosis, intricatis, subradiantibus, epidermide tectis; peritheciis ignotis.

Hab. in foliis siccis Ulmi in Gallia.

48. Asteroma Ulmi Klotzsch, Cooke Handb. n. 1369. — Fibrillis te- 1248 nerrimis, valde ramosis, radiantibus, subdichotomis flexuosis, macula brunnea insidentibus.

Hab. in foliis vivis Ulmi campestris et scabræ in Britannia, Gallia, Lusitania. — A Piggotia astroidea (Ast. Ulmi Grev.) differre videtur. An diversum ab A. maculari?

49. Asteroma maculare Rud. in Linnæa IV. p. 117. — Epiphyllum 1249 maculiforme, fuscum; fibrillis in ambitu radiatis; peritheciis minutissimis, paucis.

Hab. in foliis vivis Ulmi campestris in montibus Salisburgensibus.

B) In Dicotyledoneis herbaceis (cfr. Ast. reticulatum).

50. Asteroma graphoides Rob. et Desm. 24 Not. p. 16. — Epi- ra- 1250 rius hypophyllum et caulicolum; maculis minutis brunneis v. nullis; fibrillis prominulis, intense rufo-brunneis, ramosis e centro radiantibus; ramis divaricatis brevioribus; peritheciis ignotis.

Hab. in foliis Stellariæ holosteæ in Gallia.

51. Asteroma Gei Fuck. Symb. p. 385. — Peritheciis in macula orbi- 1251 culari, obscuriore, epiphylla numerosissimis, punctiformibus, hemisphæricis, papillatis, atris, in seriebus delicatissimis dispositis; sporulis pon visis.

Hab. in foliis languidis Gei urbani in Rhenogovia.

52. Asteroma Pæoniæ West. Exs. n. 1050, Kickx Fl. Fl. I. p. 387. 1252 — Fibrillis innatis, griseo-brunneis, ramosis, divergentibus, maculas subcirculares v. confluendo irregulares in areolas subvinosas formantibus; peritheciis nigris, immersis (sterilibus).

Hab. in pag. sup. foliorum Pæoniæ in Belgio.

53. Asteroma Brassicæ Chev. Fl. Par. p. 449. — Amphigenum; maculis pallide cærulescentibus cinctis; peritheciis ad centrum congestis, subprominulis atris.

Hab. in foliis Brassicæ in Gallia et Germania.

54. Asteroma Epilobii Fr. Summa p. 425, Dothidea Epilobii Fr. S. M. 1254 II. p. 559. — Macula ambiente levigata, uniformi, picea; peritheciis sparsis prominulis.

Hab. in caule Epilobii angustifolii in Gallia et Germania. — Maculæ subrotundo-difformes, determinatæ, 3-4 lin. longæ, passim confluentes, tenuissimæ, piceæ absque fibrillis, ubi sparsæ prominent cellulæ minutæ, inæquales, leves, albofarctæ, demum apice depressæ.

55. Asteroma Ballotæ Fuck. Symb. Myc. App. II. p. 82. — Perithe- 1255 ciis gregariis, minutis, aterrimis, superficialibus, irregularibus, astomis, in macula nigra fere totum caulem occupante; fibrillis delicatissimis, fuscis.

Hab. in caule languido et sicco Ballotæ nigræ in Rhenogovia.

56. Asteroma Fuckelii Sacc., Aster. maculare Fuck. Symb. p. 285, 1256 nec Rud. — Peritheciis gregariis, subconfluentibus, globosis, in ostiolum conicum protractis, nitidis, aterrimis; fibrillis tenuissimis, repentibus, fuscis circumdatis.

Hab. in caulibus emortuis Galeopsidis Tetrahit in Rhe-

nogovia.

57. Asteroma Prunellæ Purt. Baxt. Ox. n. 79. — Epiphyllum; fibril- 1257 lis nigricantibus, rectis, e perithecio conico vel paucis centralibus fasciculatim radiantibus.

Hab. in pag. sup. foliorum vivorum Prunellæ vulgaris et hastifoliæ in Britannia, Belgio, Gallia, Lusitania. Habitus fere algæ Hutchinsiæ dictæ.

58. Asteroma Robergii Desm. Ann. Sc. Nat. 1840, XIII. pag. 181 1258 (Actinonema). — Fibrillis ramosis; ramis paucis fusco-nigris (sub micr. olivaceis) articulatis, nodosis; articulis diametrum æquantibus vel 3-4-plo longioribus, basi 20 μ. cr.; peritheciis ignotis.

Hab. in caule (sæpius interiore) Heraclei Sphondylii in Gallia et Germania. — Var. Arundinariæ. In ejusdem interiore

culmo in Carolina infer. Amer. bor.

59. Asteroma dilatatum Berk. Crypt. antarct. p. 61, t. LXVIII. f. VII. 1259
— Superficiale; maculis ricciæformibus; lobis dilatatis e filamentis serpentibus approximatis in membranam congestis.

Hab. in foliis Panacis simplicis in insulis Auckland.

60. Asteroma Thümeni Sacc., Aster. Bupleuri Thüm. Pilzfl. Sibir. 1260 n. 799, nec Sacc. et Roum. — Peritheciis densissime gregariis, hemisphæricis, minutis, sæpe confluentibus, nitido-atris, apice per-

tusis, maculas striæformes, nervisequentes nigras efficiens; fibrillis tenuissimis, paucis, subramosis, griseis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, griseis, sæpe nucleatis, $8 \approx 4$.

Hab. in foliis emortuis Bupleuri ranunculoidis in silvis frondosis humidis prope Patroschilowo Sibiriæ Asiaticæ.

61. Asteroma Bupleuri Sacc. et Roum. Mich. II. p. 369. — Amphi- 1201 genum, maculas latas, piceas, subcontinuas efformans; peritheciis creberrimis, lenticularibus, 80 μ. diam. (vacuis), hyphulis fuligineis conjunctis.

Hab. in foliis Bupleuri rigidi, Lozieres (Gard) Galliæ (Therry). — Status Sphærellæ — Asteroma Roumeguerei J. Kunze Exs. n. 238, in foliis Bupleuri falcati, Eisleben Germaniæ, mihi non diversum videtur.

62. Asteroma vernicosum (DC.) Fuck. Symb. p. 385. Sphæria ver- 1262 nicosa DC. Franc. VI. p. 138. — Macula levigata, nitida, nigra, margine radiosa; peritheciis centralibus, subconico-prominulis.

Hab. in caulibus Chærophylli, Heraclei, Spirææ Ulmariæ et Arunci in Gallia, Germania et Hungaria. — Macula sub lentibus optimis e fibris tenerrimis formata, margine tantum visibilibus; peritheciis in centro sparsis, convexis, subconicis, astomis. Cfr. Kalchbr. Szep. Gomb. p. 272.

63. Asteroma Medusula Dur. et Mont. Fl. Alg. I. p. 609. — Maculis 1263 primo orbiculatis, olivaceis, tandem piceis, e fibrillis innatis, fle-xuosis, centrifugis formatis; peritheciis inæqualibus, centrali majori; sporulis.....

Hab. ad caules Umbelliferarum v. gr. Ferulæ, Dauci, Fæniculi in Algeria (Durieu), Gallia australi (Roumeguère).

64. Asteroma impressum Fuck. Symb. App. II. p. 82. — Epiphyl- 1264 lum; fibrillis foliorum vivorum epidermidi impresso-adnatis, dichotomo-multipartitis, primariis latiusculis, ultimis tenuissimis, tuberculatis, atro-fuscis, maculas magnas castaneas vel rubidas formantibus; peritheciis (?) demum in foliis marcescentibus, numerosis, minutis, patellæformibus, nigris; sporulis nondum visis.

Hab. in foliis viventibus Tussilaginis Farfaræ, Ragaz Helvetiæ.

65. Asteroma Cacaliæ Desm. 16 Not. p. 348. — Epiphyllum; ma- 1265 culis nullis; fibrillis innatis, brunneo-rufis, connatis, membraniformibus, ramosis, irregulariter radiantibus; ramis divaricatis, apice cuneatis vel penicilliformibus; peritheciis ignotis.



Hab. in foliis Cacaliæ (Adenostylis) Petasites in Gallia, et Tussilaginis Farfaræ in Belgio.

66. Asteroma atratum Chev. Par. p. 449. — Maculis inæqualibus, 1266 fusco-atris; peritheciis minimis, undique stipatis, prominulis.

Hab. in foliis Solidaginis Virgaureæ, et perfectius et speciosius in foliis Cacaliarum in Gallia (Mougeot et Chaillet).

— Maculæ valde obscuræ, varie confluentes et indeterminatæ. Perithecia minima, prominula, admodum conferta, epiphylla, superficiem omnem macularem occupantia, sed non confluentia.

67. Asteroma Trifolii Grogn. Crypt. Saon. p. 127. — Maculis mi- 1267 nutis, pallide brunneis, margine saturatioribus; fibrillis paucis, parum distinctis; peritheciis mediis, depressis, atrobrunneis.

Hab. in foliis Trifolii in Gallia.

68. Asteroma Orobi Fuck. Symb. p. 386. — Peritheciis sparsis, mi- 1268 nutis, dense dispositis, in fibrillis delicatissimis fuscis insidentibus.

Hab. in foliis subvivis Orobi verni in Jura Helvetiæ et in Italia boreali.

69. Asteroma Euphorbiæ Fuck. Symb. p. 385. — Peritheciis minu- 1269 tissimis, dense congestis, atris, in fibrillarum ramosarum centro dispositis; sporulis non visis.

Hab. in caulibus languidis Euphorbiæ Gerardianæ in Rhenogovia.

70. Asteroma Gentianæ Fuck. Symb. p. 386. — Fibrillis delicatis, 1270 ramosis, maculas magnas, fuscas formantibus; peritheciis sparsis, seriatis, subglobosis, aterrimis.

Hab. in pag. inferiore foliorum Gentianæ luteæ in Jura Helvetiæ (Morthier).

71. Asteroma latebrarum Grogn. Crypt. Saon. p. 128. — Maculis pa- 1271 rum distinctis, subochraceis; fibrillis copiosis, pallidis, parum conspicuis (contra lucem tamen evidentissimis); peritheciis brunneolis, raris.

Hab. in foliis Violæ tricoloris arvensis in Gallia.

72. Asteroma tenerrimum Grogn. Crypt. Saon. p. 125. — Maculis 1272 brunneo-rubidis, dein griseo-olivaceis; fibrillis tenerrimis, brevibus, tortuosis, vix anastomoticis parumque radiantibus; peritheciis rotundatis, prominulis, majusculis, brunneo-opacis.

Hab. in caulibus siccis Lilii pomponii in hortis Saone et Loire Galliæ. — Var. Petroselini: magis virens; peritheciis majoribus. — Var. Iridis: maculis brunneolis, vix distinctis; peritheciis nitidulis. — Var. Aconiti: maculis elongatis, brunneo-viola-

scentibus. — Var. subparallelum (Phlogis): maculis sordidis; fibrillis magis parallelis. — Var. Gei: fibrillis brevibus, brunneo-violascentibus. — Var. Sambuci: fibrillis brevibus; maculis minutis confertis, atris. — Var. entogenum (Centranthi): maculis cinereo-brunneis; fibrillis ut plurimum transversalibus confertis. — Var. Tropaoli: fibrillis elongatis, distinctis, brunneis; peritheciis depressis. — In caulibus plantarum citatarum in hortis Galliæ. Omnes varietates describuntur a Grognot l. c.

73. Asteroma elegans Rob. et Desm. 24 Not. p. 15. — Caulicolum; 1273 fibrillis laxe ramosis, brunneis, sinuosis, quandoque subinflatis a centro radiantibus; ramis ultimis brevibus; peritheciis ignotis.

Hab. in caulibus exsiccatis Polygoni Persicariæ in Gallia.

C) In fructibus et gallis Dicotyledonum.

74. Asteroma? Achenarum Rob. et Desm. 17 Not. p. 27. — Fibrillis 1274 tenuissimis, ramosis, fusco-nigris, articulatis, articulis diametro æqualibus vel 2-3-plo longioribus.

Hab. in acheniis Compositarum, præcipue Cirsii acaulis et Helianthi annui in Gallia.

75. Asteroma pomarii Grogn. Crypt. Saon. p. 127. — Maculis mi- 1275 nutis, circularibus, rarius radiantibus reticulatisque, sordide nigris, vix granulosis.

Hab. in pomis nondum putridis in pomariis Galliæ.

76. Asteroma incomptum Rob. et Desm. 24 Not. p. 16-17. — Ma· 1276 culis griseo-brunneis, ovatis vel subelongatis; fibrillis tenerrimis, ramosissimis, sinuosis, subintricatis, epidermide tectis; peritheciis paucis, exilissimis, globosis, subnigris; sporulis ignotis.

Hab. in fructibus siccis Fraxini in Gallia.

77. Asteroma delicatulum Desm. XIX. Not. p. 8. — Maculis minutis 1277 orbiculatis, quandoque confluentibus, humidis subolivacei, siccis griseo-nigris; fibrillis innatis, tenerrimis, flexuosis, e centro radiantibus; ramis paucis elongatis, subdichotomis, articulatis, articulis diametro æqualibus; peritheciis minutissimis, sparsis globosis.

Hab. ad legumina Coluteæ arborescentis in Gallia. — An forma in siliquis Lunariæ biennis, Coimbra Lusitaniæ, a Thümen citata huc vere spectet, nescio.

78. Asteroma gallicolum Desm. in Grogn. Crypt. Saon. p. 127. — 1278 Maculis nigris, densis, subcircularibus; fibrillis radiantibus, brevibus, confertis; peritheciis raris, exiguis.

Hab. in gallis ad folia Fagi in Gallia.

D) In Monocotyledoneis (Cfr. Asteroma tenerrimum n. 72).

79. Asteroma Angreci Gall. et Feuill. Rev. Myc. V. p. 181. — Ma- 1279 culis epiphyllis, orbicularibus, nigris; fibrillis tenerrimis, ¹/₁₀ mill. crass., radiatis; peritheciis punctiformibus, nigris, secus fibrillas seriatis (immaturis).

Hab. in foliis Angreci fragrantis, Ile Bourbon (Jetique).

80. Asteroma reticulatum (DC.) Chev. Par. I. p. 447, Sphæria reticulata culata DC. Fl. Fr. VI. p. 138, Dothidea et Cambosira reticulata Fr., Asteroma Polygonati DC. — Epiphyllum, atrum; macula nulla; fibrillis liberis, longitudinaliter serpentibus, subramosis jungen-

tibus perithecia subseriata.

Hab. in foliis Convallariæ Polygonati et C. multifloræ in Gallia, Germania, Britannia, Italia, Sibiria, Lusitania: etiam in caulibus descendit, tum crescit in series longiores; sed simplices, strictas, interruptas, tuberculis rarioribus. — Var. Eryngii Desm. In foliis Eryngii campestris in Gallia.

81. Asteroma venulosum (Wallr.) Fuck. Symb. p. 384, Sphæria ve- 1281 nulosa Wallr. Fl. Crypt. n. 3911. — Peritheciis microscopicis nigris, gregariis, adnatis, hemisphæricis, dein depressis centro obsolete papillato albis, basi fibrillulas stromaticas adpressas delicatissimas concolores periphericas emittentibus, greges concentricas maculari-punctatas mentientibus.

Hab. ad folia putria Sparganii ramosi in Germania. — Adsunt formæ in foliis Iridis Pseudacori in Italia bor., et Asphodeli ramosi in Lusitania.

82. Asteroma immaculatum Grogn. Crypt. Saon. p. 126. — Maculis 1282 obsoletis; fibrillis olivaceis, laxis, nodulosis; peritheciis brunneolis. *Hab.* in caulibus siccis Gladioli culti in Gallia.

83. Asteroma lucaginearum Rabenh. D. Crypt. Fl. n. 1269, Asteroma 1283 Calvadorii Desm. 18 Not. p. 7. — Caulicolum et epiphyllum; maculis primo olivaceis, dein nigris, levigatis, subnitidis, ovatis vel elongatis; fibrillis piceis arcte applicatis, compressis, ramosis, centrifugis radiantibus; ramis rectis, fasciculatis; ramulis subpalmatis, quandoque fastigiatis; peritheciis minutis, sparsis.

Hab. in scapis foliisque Triglochinis maritimi et palustris, Calvados Galliæ, in Belgio et Germania.

84. Asteroma confusum Grogn. Crypt. Saon. p. 128. — Ab A. de- 1884 licatulo differt fibrillis magis confusis, minus ramosis, sed tamen intertextis; maculis fuscidulis, laxioribus.

Hab. in foliis siccis Zeæ Maydis in Gallia.

85. Asteroma Donacis Grogn. Crypt. Saon. p. 127. — Maculis um- 1285 brinis, opacis; fibrillis brevibus, latiusculis, confertis, quandoque deficientibus; peritheciis mediis prominulis, atris.

Hab. in foliis Arundinis Donacis in Gallia.

86. Asteroma Graminis West. Exs. n. 1051, Kickx Fl. Fl. I. p. 387. 1286 — Fibrillis adnatis, ramulosis, tenerrimis, maculas subrotundas olivaceas dein nigricantes formantibus; peritheciis perexiguis, nigris, sparsis.

Hab. in vaginis culmisque Ammophilæ arenariæ et Zeæ

Maydis, Ostende Belgii.

87. Asteroma concinnum Dur. et Mont. Fl. Alg. p. 610. — Maculis 1287 punctiformibus, nigris, sparsis, e fibrillis innatis radiantibus, confluenti-membranaceis, fuscis conflatis; peritheciis minutis, centro congestis, atris; sporulis.....

Hab. ad basin culmorum Arundinis mauritanicæ, Mostaganem Algeriæ (Durieu).

E) In Acotyledoneis.

88. Asteroma fugax Rob. et Desm. 24 Not. p. 17. — Fungicolum, 1288 fugax; fibrillis ramosis, paucis, innatis, tenerrimis, brunneo-griseis a centro radiantibus; peritheciis ignotis.

Hab. in peridiis Tulostomatis brumalis, Calvados Galliæ.

89. Asteroma Equiseti Grogn. Crypt. Saon. p. 128. — Fibrillis ut 1289 plurimum transverse positis, subtortuosis, elongatis; peritheciis minutis, depressis, levibus, tectis.

Hab. in caulibus Equiseti in Gallia.

F) Species nomine tantum notæ.

90. Asteroma Zeæ West. Les Crypt. d. l. stat. natur. p. 319, Thum. 1290 Contr. Lus. n. 627.

Hab. in rachide spicarum feminearum Zeæ Maydis, Coimbra Lusitaniæ (M. Ferreira).

- 91. Asteroma corallinum Mont. in Lév. Ann. Sc. Nat. 1846, p. 284. 1291 Hab. ad folia Drymidis chilensis in Chili (Gar).
- YPSILONIA Lev. Ann. Sc. Nat. 1846, p. 284. (Etym. ab Y. ob formam sporularum). Perithecia globosa minuta, sessilia, subiculo radiante imposita, ostiolo inconspicuo. Sporulæ elongatæ, furcatæ seu 3-radiatæ, hyalinæ. Genus phyllogenum, Asteromati affine

Sphærioideæ, Hyalosporæ, Neottiospora.

216

sed sporulæ prorsus alienæ. Fries tamen (Summa p. 424) suspicatur s. d. sporulas mera basidia esse, sed habentur re vera in aliis generibus sporæ ramoso-radiatæ v. furcatæ.

1. Ypsilonia cuspidata Lèv. l. c. — Hypophylla; peritheciis grega- 1292 riis, nigris, levibus, subiculi fibrillis simplicibus adnatis nigricantibus; sporulis elongatis, furcatis (ut Y), hyalinis, continuis, intus granulosis.

Hab. ad pag. infer. foliorum Anonaceæ cujusdam, Manilla (Cuming). — Maculæ minutæ nigræ, 3-4 mill. latæ.

CICINNOBOLUS Ehrenb. Bot. Zeit. 1853, p. 16. (Etym. Cicinnos, cincinnus et bolos, jactus). Ampelomyces Ces. Bot. Zeit. 1852, p. 302.

— Perithecia minima conica, oblonga vel subpiriformia, sæpe stipitellata, membranacea ochraceo-fusca, vertice pertusa, in Oidiorum hyphis parasitica (an ex his oriunda?). Sporulæ ovoideæ, continuæ, hyalinæ, longe cirrose expulsæ. — Spermogonia Erysiphacearum videntur, sed plures nolunt.

1. Cicinnobolus Cesatii De Bary Morph. und Phys. d. Pilze p. 71. — 1293
Peritheciis mycelio Oidii Tuckeri et O. erysiphoidis innatis; hyphis propriis erectis, brevibus, articulatis, hyalinis vel fuscellis; peritheciis in hyphis acro-pleurogenis clavatis vel piriformibus, minimis, 25-35 ≈ 9-15, contextu minute parenchymatico ochraceo-fuligineo, vertice pertusis; sporulis tereti-oblongis vel ovoideis, rectis curvulisve, utrinque rotundatis, hyalinis, 2,5-3 ≈ 1, 1-2-guttulatis, in cirros longos exsilientibus.

Hab. in Oidio Tuckeri et O. erysiphoide ad folia Vitis, Rhamni, Antirrhini, Humuli, Violæ, Lini, Mespili, Lycii, Isatidis, etc. etc. in Italia, Gallia, Germania,

Lusitania, Britannia, Ægypto.

NEOTTIOSPORA Desm. X. Not. Crypt. p. 12. (Etym. neottos pullus v. neottia nidus, et spora). — Perithecia omnino immersa, sphærica, membranacea, ostiolo orbiculari v. irregulari aperta. Sporulæ oblongo-fusoideæ, apice penicillato-setulosæ, continuæ, hyalinæ.

Neottiospora Caricum Desm. X. Not. p. 12, Dilophospora Cari1294
2 cum (Desm.) Fuck. — Peritheciis immersis, epidermide atrata tectis, globosis; contextu parenchymatico olivaceo; nucleo roseo subgelatinoso; ostiolo orbiculari, lato, nigricante; sporulis fusoideis, 1214 ≈ 3, subhyalinis, 3-4-guttulatis, apice penicillum setularum 3-4
subinde furcatarum mox fluxile gerentibus.

Hab. in foliis emortuis Caricis paludosæ, pendulæ, ripariæ etc. in Gallia, Italia, Britannia, Germania.

2. Neottiospora coprophila Speg. Mich. I. p. 481. — Peritheciis minutissimis, 80-70, globosis, astomis (?), irregulariter dehiscentibus, contextu densiusculo, parenchymatico-indistincto; sporulis oblongo-fusoideis, 25 ≈ 3, utrinque acutiusculis, nubiloso-granuloso-farctis, hyalinis, sessilibus, apice tribus rostellis enilissimis, 20 ≈ 1, ornatis.

Hab. in fimo ovino vetusto in pratis circa Conegliano Italiæ bor., socia Delitschia Winteri.

- SIROCOCCUS Preuss Fungi Hoyersw. n. 306. (Etym. seiros, catena et coccos). Perithecia completa, subcarbonacea, erumpentia vel superficialia, sæpius subastoma. Sporulæ subglobosæ, catenulatæ e basidiis filiformibus oriundæ. Quibus notis facile ab Hormococco et Trullula dignoscitur.
- 1. Sirococcus conorum Sacc. et Roum. Mich. II. p. 628. Peri- 1296 theciis gregariis subsuperficialibus, globoso-lenticularibus, $\frac{1}{3}$ - $\frac{1}{2}$ mill. d., nigris, intus niveis, astomis, contextu minute parenchymatico, fuligineo; sporulis globosis, $2-2\frac{1}{4}$ μ . d., 1-guttatis, hyalinis e basidiis cylindraceis, $20 \approx 2$, hyalinis, catenulatim oriundis. Hab. in squamis conorum Abietis in Arduennis (Libert).
- 2. Sirococcus strobilinus Preuss Fungi Hoyersw. n. 306. Peri- 1297 theciis subdifformibus, rotundatis, gregariis, simplicibus vel confluentibus, erumpentibus, atro-nitentibus; nucleo albo; basidiis furcatis, filiformi-clavatis, albis; sporulis fusiformibus, utrinque obtusis, albis, concatenatis.

Hab. ad conos dejectos Pini Abietis, Hoyerswerda.

3. Sirococcus cylindroides Sacc. — Peritheciis gregariis, velatis, dein, $_{1298}$ epidermide secessa, superficialibus, globoso-conicis, dein collabascentibus, papillulatis, $^1/_3-^1/_2$ mill. diam., atris, duriusculis; sporulis in catenulas simplices vel parce ramosas, $50-60~\mu$. longas digestis, cylindricis, utrinque subtruncatis, $6-7\approx 1.5$, subhyalinis, ex basidiis sporomorphis, fasciculatis oriundis.

Hab. in caule emortuo Adenostylis albifrontis in Jura prope Neuchatel, socia Leptosphæria Nitschkei Rehm (Morther).

PECKIA Clinton in Rep. on the St. Mus. N. York. (Etym. a Peck, præclaro botanico Amer. bor.). — Perithecia carbonacea, globulosa, vix papillata, glabra. Sporulæ continuæ, hyalinæ vel sub-

hyalinæ in catenulas subinde ramosas digestæ, modo reticulatim connexæ, modo muco obvolutæ. — A *Myxormia* et *Hormococco* præsentia perithecii differt, sed a *Sirococco* vix distinguitur.

1. Peckia Sarraceniæ Peck et Clinton in Rep. of St. Mus. N. York. 1299 — Peritheciis sparsis vel in acervulos minutos subaggregatis, interdum macula nigricante insidentibus, minutis, leniter prominulis, nigris; catenulis sporularum reticulatim ramosis; sporulis oblongis, angustis, hyalinis, 7-8 µ. longis.

Hab. in foliis emortuis Sarraceniæ purpureæ, Buffalo Amer. bor. (CLINTON).

Peckia Clintonii Peck in Rep. of St. Mus. N. York, t. 2, f. 6-9. 1300
 Peritheciis sparsis, in utraque folii pagina prominulis, levibus, nigris; sporularum catenulis muco obvolutis subinde lateraliter connexis; sporulis subcuboideis, hyalino-chlorinis, 5 μ. diam.

Hab. in foliis putrescentibus Smilacinæ trifoliæ, Buffalo

Amer. bor. — Sporulæ sæpe plasmate diviso fætæ.

MURICULARIA Sacc. Mich. I. p. 95 (Etym. a murex ob perithecia muricata). — Perithecia globosa, astoma, membranaceo-tenacella, superficialia, undique muriculata. Sporulæ variæ botuliformes, quandoque gibbosæ v. subramulosæ, hyalinæ. — An aptius ad Nectrioideas ducendum genus?

1. Muricularia eurotioides Sacc. l. c. et F. it. t. 94. — Peritheciis 1301 globosis, membranaceo-tenacellis, ex albo ochraceis, 100 μ. diam., undique aculeolos elongato-conoideos, l-cellulares, ima basi annulato-subconstrictos, hyalinos gerentibus; perithecii contextu minute granuloso; sporulis copiosissimis e strato proligero tenui immediate oriundis, polymorphis nunc botuliformibus, nunc medio ventricosis, nunc subfurcatis, polis obtusiusculis, et l-guttulatis, hyalinis, jodii ope intense cærulascentibus, strato proligero vero eadem ope intense flavescente.

Hab. in nidis vesparum putrescentibus, socio Aspergillo vircente, Padova Ital. bor.

staurochæta Sacc. F. Ven. Ser. IV. p. 40 (Etym. stauros, crux et chæte, seta). — Perithecia erumpenti-superficialia, membranacea v. carbonacea, sphæroidea, atra, subastoma, setis rigidulis, apice stellatis v. stellato-ramulosis undique obsita. Sporulæ ovoideæ v. oblongæ, continuæ, diaphanæ sed dilute fuscellæ. — Genus pulchellum setulis stellatis statim dignoscendum.



1. Staurochæta minima Sacc. Fung. Ven. Ser. IV. p. 40. — Perithe- 1302 ciis globulosis, vertice depressiusculis, sparsis, minutissimis, V_7 circiter mill. diam., atris, setis divergentibus, 1-cellularibus, basi subincrassatis, apice stellatis h. e. radios 3-5 interdum ramulosos, patentes, acutos gerentibus, 50 μ . longis, 10 μ . crassis, obscure fuligineis, undique densiuscule obsitis; perithecii contextu distincte parenchymatico, monostromatico, fuligineo; sporulis ovoideis, 8-. $10 \approx 4-5$, dilute fuligineis, eguttulatis.

Hab. in ramis corticatis putrescentibus Ulmi campestris, Padova Ital. bor.

2. Staurochæta membranacea Cooke in Grevillea. — Gregaria; pe- 1308 ritheciis applanatis, 80 μ . diam., membranaceis, fuscis, supra hyphis septatis, furcatis, radiantibus ornatis; sporulis ovalibus, $12 \approx 9-10$, hyalino-fuscis, vix coloratis.

Hab. in gallis siccis Quercuum, Aiken in Carolina inferiori America borealis (RAVENEL).

PYRENOCHÆTA De Not. Micr. ital. Dec. V. pag. 15 (Etym. pyren, pyrenium seu perithecium et chæte, seta). — Perithecia globosoconica, innato-erumpentia, membranacea v. subcarbonacea, nigra, ostiolo pertusa, setis rigidis (præcipue ad verticem) vestitis. Sporulæ continuæ, ovoideæ, oblongæ, v. cylindraceæ, continuæ, subhyalinæ, basidiis bacillaribus suffultæ.

1. Pyrenochæta nobilis De Not. Micr. ital. Dec. V. f. 9. — Perithe- 1304 ciis hypophyllis, ovoideis v. subglobosis, \(^1/_4\) mill. diam., innato-erumpentibus, vertice tenuato setisque rigidis, atris, longiusculis hirto; ostiolo circulari latiusculo; basidiis fasciculatis filiformibus alterne ramulosis, ramulis cylindricis, brevibus, diametro triplo longioribus; sporulis cylindricis hyalinis, utrinque obtusis, continuis e solutione ramulorum ortis.

Hab. in foliis dejectis Lauri nobilis, Genova Ital. bor., rarius — *lignicola Sacc. Mich. II. p. 276; peritheciis subsuperficialibus, globoso-conoideis, $\frac{1}{4}$ mill. diam., subcarbonaceis, setulis fuligineis continuis, $110-120\approx 5-6$ vestitis; sporulis allantoideis, $4\approx 1-1\frac{1}{4}$, hyalinis, basidiis vage vel verticillato-ramosis, acicularibus, $20-25\approx 1$ suffultis. — In ramis decorticatis Alni glutinosæ, Selva Italiæ borealis.

2. Pyrenochæta Stanhopeæ Winter Contr. Myc. Lus. n. 793. — Pe- 1305 ritheciis amphigenis, erumpentibus, sine macula, gregariis sparsisve, atris, setis fuscis, sæpe flexuosis continuis obsitis; sporulis oblon-

gatis vel cylindraceis, utrinque rotundatis, continuis, guttulatis, hyalinis, $14-23 \approx 4-7$.

Hab. in foliis aridis Stanhopeæ eburneæ in horto botanico Coimbra Lusitaniæ.

3. Pyrenochæta ferox (De Not.) Sacc. Sphæronæma ferox De Not. 1306 Micr. ital. Dec. III. p. 12, t. IX. — Maculis in caule fuscescentibus; peritheciis, epidermide tectis, globoso-depressis, obtuse conoideis, fuscis, tenuibus, circa ostiolum latiusculum setulis rigidulis, plus minusve copiosis patentibus, pellucidis ornatis; sporulis cylindraceis utrinque obtusis, perlaceo-diaphanis, 8-9 ≈ 1-1,5, dein pulveraceo-erumpentibus.

Hab. in caulibus Solani aliarumque herbarum in hortis Genova Italiæ borealis.

4. Pyrenochæta vinosa Sp. F. Argent. Pug. III. n. 102. — Perithe- 1307 ciis minutis, 100-120 μ. diam., macula latiuscula œnocyanica insidentibus, primo tectis, dein, epidermide secedente, superficialibus, globosis, ubique piloso-hirtellis, atris, coriaceo-carbonaceis, ostiolo impresso-pertusis; sporulis elliptico-fusoideis, utrinque acutiuscule rotundatis, 5-7 ≈ 2-2,5, hyalinis, 2-3-guttulatis.

Hab. ad folia caulesque emortua Eryngii agavifolii in paludosis à la Boca del Riachuelo, Argent. Amer. merid.

Pyrenochæta seminicola (B. et Br.) Sacc. Sphæropsis seminicola 1308
 B. et Br. F. of Ceyl. n. 791. — Minuta, gregaria, libera, setis rigidis sparsa; sporulis oblongis, angustis, obtusis, 12 μ. longis.

Hab. in seminibus Artocarpi integrifoliæ, Peradeniya Ceylon.

6. Pyrenochæta penicillata Fuck. Symb. p. 378. — Peritheciis gre-1309 gariis, primo tectis, dein liberis, globosis, vertice conicis, pilis concoloribus patentibus coronatis, semine *Papaveris* triplo minoribus, atris; sporulis cylindraceis, rectis, utrinque obtusis, continuis, 14 \pm 4, hyalinis.

Hab. in caulibus Medicaginis sativæ in Italia bor. et Germania.

7. Pyrenochæta acicola (Lèv.) Sacc. Vermicularia acicola Lèv. Ann. 1310 Sc. Nat. 1848, p. 259. — Peritheciis gregariis, innatis, erumpentibus, subglobosis, intus extusque nigris, pilis divergentibus obsitis; sporulis minutissimis, ovatis, continuis, hyalinis.

Hab. ad folia decidua Pini silvestris in Vogesis.

8. Pyrenochæta rhenana Sacc. Herpotrichiæ rhenanæ spermogonium 1311 Fuck. Symb. p. 146. — Peritheciis sparsis gregariisve, subliberis,



globosis, rugulosis, pilis fuscis, decumbentibus repentibusque dense tectis, vertice applanatis, subglabris; sporulis cylindraceis, curvatis, minutis, hyalinis.

Hab. in caulibus putridis Urticæ dioicæ, Reichartshausen Germaniæ.

- Pyrenochæta hirta Sacc. Massariæ hirtæ spermogonium Fuck. 1312
 Symb. p. 155. Peritheciis minutis, atris, pilis pallidioribus undique tectis, sub epidermide nidulantibus; sporulis oblongis, continuis, rectis, utrinque obtusis, hyalinis, 6 ≥ 2.
- Hab. in ramis corticatis Sambuci racemosæ in Rhenogovia.
 10. Pyrenochæta Erythrinæ (Arc.) Sacc. Phoma Erythrinæ Arcang. 1313
 Erb. Critt. It. Ser. II. n. 1380. Peritheciis punctiformibus, gregariis v. sparsis, atris, margine conspicue setuligeris; sporulis elongatis, utrinque acutis v. apice rotundatis, sæpe curvulis hyalinis, guttulatis, 18-21 ≈ 4-5.

Hab. in ramis emortuis Erythrinæ Cristæ-galli in horto botanico pisano (Arcangelli).

11. Pyrenochæta exosporioides Sacc. Tricosphæriæ exosporioidis 1314 spermogonium Fuck. Symb. p. 145. — Peritheciis minutissimis, superficialibus, aterrimis, globosis, basi pilis concoloribus, perithecio duplo longioribus cinctis; sporulis ellipticis, continuis, rectis, hyalinis, 10 ≈ 3.

Hab. in foliis siccis languidisve Caricis glaucæ, Œstrich Germaniæ.

12. Pyrenochæta Luzulæ (West.) Sacc. Vermicularia Luzulæ West. 1315 Bull. Ac. Belg. Ser. 2, t. XII. n. 7, cum icone. — Peritheciis superficialibus, nigris, rotundatis, leniter applanatis, basi fibrillis ramosis insidentibus setisque rigidis, divergentibus, brevibus, nigro-brunneis, apice hyalinis obsitis, ostiolis piriformibus irregularibusque; sporulis hyalinis globulosis, 5 μ. diam.

Hab. in foliis Luzulæ maximæ, Nassogne, Luxembourg.

13. Pyrenochæta tarda Sacc. Trichosphæriæ tardæ spermogonium 1316 Fuck. Symb. p. 145. — Peritheciis sparsis, seminis Papaveris magnitudine, globosis, undique strigoso-pilosis, olivaceo-fuscis, ostiolis minutissimis; sporulis copiosis, cylindraceis, rectis vel perparum curvatis, 4-guttulatis, 8 ≥ 2, hyalinis.

Hab. in charta putri prope Œstrich Rhenogoviæ.

VERMICULARIA Fr. Summa V. S. p. 419, nec Tode (Etym. a vermiculus, ob sporulas sæpe cylindraceas). — Perithecia erumpentia

vel subsuperficialia, membranaceo-carbonacea, atra, globoso-conica, demum subinde concava, vertice pertusa vel astoma, setis longiusculis, rigidis, septatis, fuligineis vestica. Sporulæ typice cylindraceo-fusoideæ, sæpe inæquilaterales, continuæ, hyalinæ, basidiis variis suffultæ. — Genus ulterius explorandum; multæ enim adsunt species sporulis ignotis; nonnullæ perithecio imperfecto vel pezizoideo instructæ (et tunc ad Colletotricha vel Excipulas vergentes), dum plures perithecio perfectissimo utuntur; sporulæ quoque in paucis septatæ dicuntur, quod si exactum, a genere seponendæ species; nec desiderantur formæ (e. g. V. relicina) basidiis pleiosporis ornatæ.

I. In Dicotyledoneis arboreis.

A) Ramicolæ.

Vermicularia compacta C. et E. Grev. V. p. 54. — Peritheciis 1317 gregariis, hispidis, atris, distinctis, compactis; sporulis fusiformibus, curvulis, utrinque acutis, nucleatis, demum (spurie?) septatis, 20 μ. longis.

Hab. in sarmentis Vitis viniferæ, Rubi, et in caulibus

Dahliæ, New Jersey Amer. bor.

2. Vermicularia crassipila Karst. Hedw. 1884, p. 61. — Peritheciis 1318 gregariis, cortici innatis, subsphæroideis, atratulis, contextu subcarbonaceo, vertice emergente setis strictis divergentibus, rigidis, obtusis, atris, brevibus, 45-90 \approx 10-15, septatis obsessis, 200 μ . lat.; sporulis fusoideo-bacillaribus, curvulis, hyalinis, 18-27 \approx 3.

Hab. in cortice Tiliæ ulmifoliæ in regione aboënsi, Meri-

masku Fenniæ.

3. Vermicularia effusa Schw. Syn. Amer. bor. n. 1850. — Peritheciis 1319 primum omnino tectis, sparsis, globoso-applanatis, demum confluentibus, epidermide orbatis, nigris, et in maculas late effusis; setis longis divergentibus, non valde nigris, confusis in macula, i. e. undique provenientibus.

Hab. rarius ad sarmenta corruptissima Ruborum, Bethle-

hem Amer. bor.

4. Vermicularia Staphyleæ Schw. Syn. Amer. bor. n. 1859. — Pe- 1320 ritheciis quasi applanatis subpezizoideis ex epidermide subcorrugata prorumpentibus; setis aterrimis, flexuosis, longis; perithecia acervata sunt.

Hab. gregatim in epidermide tenerorum ramorum Staphyleæ in America hor.

5. Vermicularia Ephedræ Dur. et Mont. in Herb., Sacc. in Revue 1321 Mycol. t. XIV. f. 8, Roum. Fungi Gallici n. 1027. — Peritheciis minutis, integris, setulis atro-fuligineis vestitis; sporulis obclavatis, 20-25 ≈ 3,5, basi subrotundatis, sursum attenuatis, obsolete 1-septatis, dilute olivaceis.

Hab. in ramulis Ephedræ fragilis, Hussein Dey Algeriæ.

- A generis typo nonnihil recedit.

6. Vermicularia epixyla Fr. Summa V. S. p. 420, sec. Kickx Fl. Fl. 1322 I. p. 404, nec Sphæria Vermicularia Nees, teste Fuckel. — Peritheciis innatis, superficialibus, minutis nigris, sparsis densis, numerosis, rotundatis vel subelongatis, convexis, setulis concoloribus sparsis rectisve obsitis, irregulariter pertusis; sporulis oblongis vel ovoideo-oblongis, acutis.

Hab. in ligno denudato et semi-putrescente Abietis in Suecia, Belgio.

7. Vermicularia grandis Pass. et Beltr. F. Sic. n. 30. — Peritheciis 1323 globosis, atris, setis longis concoloribus acuminatis strigosis, apice rotundatis, sæpe calvis, cellulis minutis, subquadratis, seriatim dispositis, contextis; sporulis copiosissimis, sterigmatibus longis, setiformibus, hyalinis fultis, acervatim visis dilute olivaceis, singulis autem hyalinis, fusiformibus, simplicibus, rectis, 15 = 3.

Hab. in ramulis aridis suffruticis ignoti, Marianella Siciliæ.

B) Petioli-fructicolæ.

8. Vermicularia petiolorum Schw. Syn. Amer. bor. n. 1853. — Pe- 1324 ritheciis sparsis, tectis aterrimis, parum elevatis, difformibus aut globoso-conicis, frequentissimis, interdum elongatis, angustatis; setis longissimis divergentibus.

Hab. frequens in dejectis petiolis Æsculorum et Catalpæ, Bethlehem Amer. bor.

 Vermicularia Involucri Schw. Syn. Amer. bor. n. 1862. — Minima, atra, plerumque globosa et valde elevata, basi constricta; peritheciis undique obsitis setis, breviusculis in ambitu, confluentibus, innatis interiori epidermidi.

Hab. passim in interiori involucri Æsculi cultæ, Bethlehem.

10. Vermicularia Grossulariæ Fuck. Symb. Myc. p. 374. — Peritheciis (tuberculis) gregariis, minutis, in macula fusca, fusco-olivaceis, orbicularibus, pilis sterilibus, 3-4-septatis, atris, fertilibus seu basidiis hyalinis; sporulis curvatis, fusiformibus, 20 \(\pi 4\).

Hab. in fructibus adhuc immaturis Ribis Grossulariæ.

quos morte et lapsu afficit, in Rhenogovia.

11. Vermicularia Amenti Karst. Hedw. 1884, p. 61. — Peritheciis 1327 subsphæroideis, fusco-pallidis, 200 μ . lat. vertice setulis strictis, fuscis, $120 \approx 6$, obsessis, contextu parenchymatico; sporulis elongatis, curvulis vel rectis, hyalinis, $5-8 \approx 1-1,5$.

Hab. in capsulis emortuis Salicis phylicifoliæ ad Mu-

stiala Fenniæ.

12. Vermicularia rectispora Cooke in Grevillea. — Sparsis; peritheciis minimis, tectis, membranaceis, supra setis rigidis, septatis ornatis; sporulis linearibus, obtusis, hyalinis, $20 \approx 3$.

Hab. in petiolis Meliæ in Carolina inf. Amer. bor.

C) Foliicolæ.

13. Vermicularia trichella Fr. in Grev. Scot. Fl. t. 345 et Summa 1329 V. S. p. 420. — Sparsa; peritheciis ovatis, minimis, astomis, nigris, pilis longissimis divergentibus, vertice obsessis; sporulis fusoideis, curvulis, utrinque obtuse attenuatis, 16-25 ≈ 4-5, hyalino-nebulosis.

Hab. in foliis Hederæ, Piri, Mali, Salicum, Smilacis, Ari, Evonymi in Suecia, Britannia, Gallia, Germania, Italia, Belgio. — F. pomona Sacc. F. Ven. V. n. 279: sporulis 18-3,7-4. In foliis Mali in Italia. — F. Castaneæ: setis cuspidatis, 110-120 ≈ 8 , septatis, fuligineis; sporulis stipitellatis, angustius fusoideis, $25-28 \approx 2^{1}/_{2}-3$, nubilosis. In foliis Castaneæ in Gallia.

14. Vermicularia carbonacea B. et C. North Amer. Fungi n. 430^{bls}. 1330
 — Peritheciis diu nigerrimis punctiformibus in acervulos minutos;
 sporulis arcuate fusiformibus, obsolete triseptatis, 35-40 μ. longis.

Hab. in foliis Magnoliæ grandifloræ in Carolina infer.

Amer. bor. - Perithecia setis basalibus cincta.

15. Vermicularia albo-maculata Schw. Syn. Amer. bor. n. 1858. — 1831 Maculis epiphyllis lacteis, latis (v. g. in foliis *Liriodendri* ubi margine fusco cinctæ sunt maculæ) aut minoribus (in foliis *Populi*) suborbiculatis, quibus insident perithecia, sparsa, conico-globosa, aterrima, setis tecta longiusculis, ceterum minutissima, oculo nudo vix distinguenda, subinnata.

Hab. in variis foliis dejectis v. c. Liriodendri, Populi,

Smilacis, Bethlehem, Buffalo, Amer. bor.

16. Vermicularia ambigua Sacc. Mich. II. p. 271. — Peritheciis (spu- 1332 riis) laxe gregariis, innato-erumpentibus, globoso-depressis, ¹/₃ mill. diam., atris, epidermide denique rupta cinctis; setulis cuspidatis,

 $90 \approx 5-6$, rigidulis, septatis, atro-fuligineis vestitis; basidiis intra setulas dense fasciculatis cylindricis, obtusiusculis, $50 \approx 5$, septulatis, pallide fuligineis; sporulis oblongis rectiusculis, $15-16 \approx 6$, deorsum subacutatis, granulosis, hyalinis.

Hab. in foliorum partibus arescentibus Cinnamomi dulcis in horto patavino. — Perithecio imperfecto, sporulis rectis etc.

mox dignoscitur et ad Colletotrichum nutat.

17. Vermicularia religiosa Thum. Contr. Myc. Lus. n. 416. — Peritheciis hypophyllis, gregariis, minimis, subglobosis, brevipilosis, aterrimis in macula irregulari, arescendo griseola, ferrugineo-cincta; sporulis numerosis, bacillaribus, utrinque obtusatis, subrectis, bi-triseptatis, hyalinis, $5 \approx 1,5$.

Hab. in foliis vivis Ficus religiosæ, Coimbra Lusitaniæ in

horto botanico (Moller).

18. Vermicularia macrochæta Desm. 9 Not. pag. 28. — Amphigena 1334 aggregata, atra, maculas nigras efficiens; peritheciis innato-prominulis, minutissimis, pilis paucis (7-5) validis, obtusis, opacis, divergentibus, ad verticem obsitis.

Hab. in foliis coriaceis persistentibus Pruni lusitanicæ in

Gallia et Belgio. — Sporulæ nondum observatæ.

19. Vermicularia epiphylia Schw. Syn. Amer. bor. n. 1856. — Pe- 1335 ritheciis basi innatis, aut substantia folii immersis, demum erumpentibus, sparsis, juvenilibus subconicis, provectiori ætate rotundato-applanatis, minutis, aterrimis; setis subrigidis aut flaccidis concoloribus creberrime in toto perithecio sitis; crusta quadam albescente ex folio orta circumdata.

Hab. rarius in aversa pagina foliorum putridorum, Bethlehem Americæ bor.

II. In Dicotytedoneis herbaceis.

A) Caulicolæ.

20. Vermicularia Dematium (Pers.) Fr. Summa V. S. p. 420, Sphæria Dematium Pers. Syn. p. 88. — Peritheciis (genuinis?) erumpenti-superficialibus, 80-120 μ. diam., conicis, dein depressis, astomis, atris, hispidulis, setulis rigidis, atris apice pallescentibus, parce
septulatis, 150-200 ≈ 5, vestitis; sporulis cylindraceo-elongatis, 20
≈ 4-5, utrinque rotundatis atque lateraliter acutato-angulatis, granuloso-farctis, hyalinis.

Hab. in caulibus herbarum fere omnium, rarius petiolis foliisque e.g. Heraclei, Chærophylli, Conii, Angelicæ, So-

lani, Phytolaccæ, Clematidis, Chenopodii, Phlogis, Valerianæ, Loniceræ, Acerum, Salicum etc. etc. in Suecia, Britannia, Italia, Gallia, Germania, Belgio, Sibiria, America bor. et austr. — Var. macrospora Sacc. Mich.: sporulis curvo-fusoideis, $30 \approx 4$, pluriguttulatis, hyalinis, basidiis teretibus, $15 \approx 3$, obtusiusculis suffultis. In petiolis Æsculi Paviæ, Toulouse Galliæ. — Var. samaricola Sacc. Mich.: peritheciis solito majoribus; sporulis $20-22 \approx 31/2$, pluriguttulatis, hyalinis. In samaris (exclusis alis) Fraxini in Gallia. — An in hac affinibusque speciebus verum perithecium adsit vel (ut cl. Fuckel mavult) merum tuberculum stromaticum exosporum, difficile eruitur, num pro varia ætate unum alterumque forte observetur.

21. Vermicularia herbarum West. Exs. n. 393, Kickx Fl. Flandr. I. 1337 p. 405, Verm. Dianthi West. sec. Kickx l. c. — Peritheciis laxiuscule gregariis, erumpenti-superficialibus, globoso-depressis, ½ mill. diam., nigris, setulis crebris rigidulis, inæqualibus, fuscis vestitis; sporulis cylindraceis, subrectis, utrinque obtuse rotundatis, 20-22 ≈ 3-4, granulosis, hyalinis. (Sec. West.: sporulis cylindraceis vel clavulatis, utrinque obtusiusculis vel acutiusculis et subinde lenissime curvulis).

Hab. in caulibus et foliis putrescentibus Solani tuberosi, Dianthi barbati, superbi et sinensis. Sedi, Erythrinæ Cristæ-galli, Yuccæ gloriosæ in Belgio, Gallia, Africa austr. — A Verm. Dematio Fr., cui habitu affinis, differt sporulis rectis, obtusisque, nec falcatis. Longius distat a Verm. atramentaria B. et Br. (? = Verm. maculanti [Link] Desm.) ob perithecia majora et laxe sparsa.

22. Vermicularia Geranii West. Exs. n. 1239, Kickx Fl. crypt. Fl. 1338 I. p. 404. — Peritheciis innatis, minutis, nigris, sparsis, numerosis, ovalibus, oblongis vel elongatis, setulis concoloribus, sparsis, rectis obsitis, denique apice pertusis; sporulis elongato-oblongis vel ovali-elongatis acutis, rectis vel leniter curvatis, $10 \approx 2.5$.

Hab. in caulibus siccis Geranii dissecti in Belgio.
23. Vermicularia polytricha Cooke Grev. XII. p. 24. — Erumpens, 1339 cupuliformis, strigosa, atra; setis dense congestis, erectis, rigidis,

subulatis, glabris, atrofuscis; sporulis lanceolatis, lunatis, nucleatis, hyalinis, $30 \approx 4$.

Hab. in caulibus Leguminosæ? (Lima bean) in Carolina australi.

24. Vermicularia uncinata B. et C. North Amer. Fungi n. 431. — 1340

Peritheciis distinctis, sparsis, hispidis; sporulis magnis hamatis, a basi attenuatis, 60 μ . longis, distincte tunicatis.

Hab. in caulibus Desmodii nudiflori in Amer. bor.

25. Vermicularia truncata Schw. Syn. Amer. bor. n. 1865. — Peri- 1341 theciis lineam vix excedentibus, nigris (in leguminibus majoribus), adnatis, confertis, hemisphæricis, horizontaliter truncatis in majoribus; in minoribus irregulariter conico-truncatis, rugulosis; setis filiformibus præsertim truncaturam occupantibus, divergentibus, longioribus, brevioribus immixtis; sæpe setæ caducæ sunt, ita ut perithecium orbetur.

Hab. in caulibus, sarmentis ac leguminibus Phaseolorum in hortis frequens, Bethlehem Amer. bor.

26. Vermicularia Eryngii (Corda) Fuck. Symb. p. 374, Excipula E- 1342 ryngii Corda Icon. Fung. I. f. 294. — Peritheciis globoso-conicis depressis, 250-300 p. diam., setulis levibus, $400 \approx 6$ -6,5, instructis, nigris; sporulis elongato-fusiformibus, hyalinis, 20-22 \approx 3-3,5 basidiis dense stipatis, hyalinis suffultis.

Hab. in caulibus petiolisque Eryngii campestris in Italia bor., Germania, Lusitania.

27. Vermicularia eupyrena Sacc. Mich. II. p. 563. — Peritheciis laxe 1343 gregariis, hemisphæricis, $^{1}/_{4}$ - $^{1}/_{3}$ mill. diam., integris, astomis, nigris, setulis cuspidatis, parce septatis, $110-120 \approx 3-5$, fuligineis conspersis, contextu perithecii parenchymatico fuligineo; sporulis teretibus, rectiusculis, $20-26 \approx 4-4.5$, bi-quadriguttulatis, utrinque subrotundatis, hyalinis; basidiis fasciculatis, bacillaribus, $30 \approx 5$, dilute fuligineis, guttulatis.

Hab. in caule denique decorticato emortuo Solani tuberosi, Forni di Zoldo, Ital. bor. (Bizzozero). — Perithecia prorsus integra, nec more generis late aperta.

28. Vermicularia orthospora Sacc. et Roum. Mich. II. pag. 630. — 1344 Peritheciis erumpenti-superficialibus, globoso-conicis, atris, setis cuspidatis ubique vestitis; sporulis teretiusculis, utrinque subrotundatis, subrectis, 22 = 4, continuis, hyalinis.

Hab. in caule Solani tuberosi in Arduennis (LIBERT).

29. Vermicularia atramentaria B. et Br. Ann. N. H. n. 430. — Ef- 1345 fusa, gregaria, atra, maculiformis; peritheciis minutis superne setulis longis rectis, basi vero fibris repentibus, subepidermicis cinctis; sporulis minutis, cylindraceis, brevibus, utrinque nucleatis, (plasmate utrinque retracto, Berk.).

Hab. in caulibus Solani tuberosi in Britannia, Italia, Gal-

lia, Belgio, Germania. — Verm. maculans (Link) Fr. Summa V. S. p. 420, Kickx Fl. Fl. I. p. 405, valde affinis est, nisi eadem ac Verm. atramentaria B. et Br.

30. Vermicularia maculans (Link) Desm. Exs. n. 339, Exosporium 1346 maculans Link Sp. plant. Fung. II. p. 123. — Peritheciis innatis, minutis, aggregatis, dein confluentibus et matricem nigrificantibus, rotundatis, applanatis, setulis concoloribus, sparsis, fasciculatis, apicem versus attenuatis, divaricatis obsitis, denique apice hiantibus; sporulis (paucis) elongatis vel oblongis, rectis, subobtusis.

Hab. in caulibus plantarum herbacearum, præcipue Solani

tuberosi et Urticæ urentis in Gallia et Belgio.

31. Vermicularia minuta (Link) Lib. exs. cent. IV. n. 350, Kickx Fl. 1347 Fl. I. p. 404, Exosporium minutum Link Sp. pl. Fung. II. p. 122. — Peritheciis innatis, erumpentibus, minutis, punctiformibus, sparsis, plerumque rotundatis, setulis sparsis, concoloribus, rectis, brevibus obsitis, denique apice poriformi pertusis; nucleo albo; sporulis fusiformibus, leviter curvatis.

Hab. in caulibus herbaceis variis in Suecia, Germania, Belgio, Gallia. — An satis diversa a Verm. Dematio?

32. Vermicularia Chenopodii West. Bull. Ac. rog. belg. 2, Ser. t. XII, 1348 n. 19, exs. n. 1238. — Peritheciis nigro-brunneis, emersis, rotundatis, minutis, sparsis, innatis, setulis fragilibus, brunneis, brevibus et raris obsitis, ostiolo irregulari; sporulis hyalinis, fusiformibus, leviter curvatis, frequenter medio (spurie?) uniseptatis, $10 \approx 2.5$.

Hab. in caule Chenopodii viridis in Belgio. — Sec. Kickx vix diversa a Verm. minuta.

33. Vermicularia hypodermia (Link) Fr. Summa p. 420, Exosporium 1349 hypodermium Link Sp. pl. Fung. II. p. 121. — Peritheciis oblongis, sæpe confluentibus, epidermide rupta cinctis, atris; setis elongatis, filiformibus, distantibus, atris.

Hab. in caulibus siccis Umbelliferarum in Silesia Germaniæ.

34. Vermicularia subglabra C. et Harkn Grev. 1880, p. 6. — Spar- 1850 sa, epidermide nigrificata tecta; peritheciis subapplanatis, aliis glabris, aliis pilis sparsis brevibus cristatis; sporulis lunatis, hyalinis, trinucleatis, 20 μ. longis.

Hab. in caulibus Helianthi in California Amer. bor.

35. Vermicularia venturioidea C. et Ell. in Grevillea. — Gregaria; 1351 peritheciis primum tectis, demum detectis, subglobosis, brunneis, supra pilis atris, rigidis ornatis; sporulis fusiformibus, curvatis, hyalinis, nucleatis, 30 ≈ 3,5.

Hab. in caulibus Lactucæ elongatæ, New Jersey Americæ borealis.

36. Vermicularia phyllostictoidea Speg. F. Argent. Pug. IV. n. 281. 1352

— Maculis parvulis, 0,5-1 mill. diam., amphigenis, determinatis, candidis, areola latiuscula fulvo-rufescenti cinctis; peritheciis epiphyllis, paucis centralibus, minutis, 70-80 μ. diam., hemisphæricis erumpentibus, contextu parenchymatico, olivaceo-fuligineo, ostiolo lato, impresso pertusis, setulis nonnullis rigidulis, atris, erectis, 30-70 ≈ 4-5, basi non vel vix incrassatis coronatis; sporulis cylindraceo-elongatis, utrinque lateraliter rotundato-acutatis, 16-17 ≈ 3, granuloso-farctis, hyalinis.

Hab. ad folia viva Solidaginis linearifoliæ in herbosis prope Pueblo Lavalle Argentinæ.

37. Vermicularia Arctii Schw. Syn. Amer. bor. n. 1860. — Sparsa 1353 vel aggregata, epidermide innata; peritheciis polymorphis atris, semper applanatis; setis densissime longis, immixtis brevibus, undique divergentibus.

Hab. rarius in caulibus Arctii Lappæ, Bethlehem Am. bor.
38. Vermicularia Silphii Schw. Syn. Amer. bor. n. 1851. — Perithe- 1354 ciis oblongis subrotundisve, obtusis, valde applanatis; confluentibus, aggregatis in macula expallente, nigris, tectis; setis frequentibus, brevibus, atris, prorumpentibus ex epidermide.

Hab. frequens in caulibus Silphii culti in horto Nazareth A-mericæ bor.

39. Vermicularia Balsamitæ Schw. Syn. Amer. bor. n. 1852. — Pe- 1355 ritheciis innatis rotundatis, parum elevatis, truncato-applanatis, aterrimis, interdum difformibus; setis breviusculis concoloribus, plerumque sitis quasi in margine truncaturæ nec alibi.

Hab. rarius in caulibus Impatientis Balsamitæ, maculas formans, Bethlehem Amer. bor.

40. Vermicularia Polygoni-virginici Schw. Syn. Amer. bor. n. 1848. 1356 — Peritheciis sparsis, innatis, nigrosplendentibus vix confluentibus, utrinque arcte acuminatis, centro ex basi latiusculo, valde elevato-conico; setis brevibus in apice collectis.

Hab. in caulibus Polygoni virginici, Bethlehem Am. bor.
41. Vermicularia ovata Schw. Syn. Amer. bor. n. 1863. — Perithe- 1357
ciis aggregatis, aterrimis, primum erumpentibus, demum superficialibus, majusculis, ovatis, applanato-truncatis; setis filiformibus crebris divergentibus et in disco subpezizoideo truncaturæ frequentibus. Refert primo obtutu pezizulam nigram.

Sphærioideæ, Hyalosporæ, Vermicularia.

230

Hab. in caulibus plantarum in hortis Nazareth et in caulibus Ruelliæ strepentis in Pensylvania.

42. Vermicularia Gerardiæ Schw. Syn. Amer. bor. n. 1857. — Ater- 1358 rima, irregularis; peritheciis primum globoso-difformibus, parum elevatis, demum longitudinaliter effusis; setis inæqualibus undique divergentibus, interdum longissimis, rigidis, pulvere quasi adspersis.

Hab. in exsoletis stipitibus Gerardiæ quercifoliæ, Beth-

lehem Americæ bor.

43. Vermicularia Ipomæarum Schw. Syn. Amer. bor. n. 1845. — Pe- 1359 ritheciis sparsis, globosis, majusculis, nigris absque nitore, ex epidermide erumpentibus, demum disco truncato; setis in apice truncato, densis, subcinerescentibus, altitudinem perithecii æquantibus.

Hab. frequens in caulibus Ipomææ coccineæ, purpureæ

etc. Bethlehem Amer. bor.

44. Vermicularia angustata Schw. Syn. Amer. bor. n. 1849. — Pe. 1360 ritheciis aggregatis in maculas nigras, angustato-elongatis, confluentibus, epidermide omnino tectis; setis solummodo per rimulas epidermidis prorumpentibus, longiusculis nigris rectis, demum divergentibus.

Hab. in tenerrimis ramulis Catalpæ frigore emortuis, Bethlehem Amer. bor.

45. Vermicularia scandentium Schw. Syn. Amer. bor. n. 1864. — 1361 Peritheciis minutissimis, atro-nitidis, prorumpentibus, plerumque longitudinaliter compressis, tamen utrinque attenuatis aut acuminatis, juniori ætate nudis, in ambitu sæpe fuscescentibus; demum setis parcis filiformibus divergentibus, in cacumine tantum sitis coronata.

Hab. in caulibus scandentibus v. c. Galii Aparines, Bethlehem Amer. bor. — «Sed vero Galium Aparine vix scandit».

46. Vermicularia subeffigurata Schw. Syn. Amer. bor. n. 1843. — 1362
Primum tecta sub tenera epidermide et more Sphæriarum cum ea assurgens; peritheciis majusculis, quamquam punctiformibus, sparsis; demum denudata, multo major evadit; peritheciis quodammodo in plagis effiguratis, colore aterrimo insignibus collectis, subelevatis, apice applanatis, numerosis, interdum late confluentibus; setis inæqualibus, aterrimis, æquantibus altitudine perithecium, rectis, præsertim in apice conspicuis; plagæ occurrunt biunciales, semiunciam latæ, distinctæ in ambitu filis basilaribus dothidineis radiantibus.

Hab. frequens in variis caulibus Bethlehem Amer. bor., mire

varians. — Var. scapincola: frequens in scapis Yuccæ fila-mentosæ mnc quasi reticulatis: fere semper simplex et sphærio-morpha. — Var. dianthicola: vulgatissima in caulibus Dianthi sinensis et aliorum distincta colore aterrimo et magnitudine insigni peritheciorum. — Var. Impatientis: in caule Impatientis fulvæ. — Var. Helianthi: versus radicem in caulibus maximis Helianthi annui var. giganteæ.

47. Vermicularia ovata Schw. Syn. Amer. bor. n. 1863. — Perithe- 1363 ciis aggregatis, aterrimis, primum erumpentibus, demum superficialibus, majusculis, ovatis, applanato-truncatis, setis filiformibus crebris divergentibus et in disco subpezizoideo truncaturæ frequentibus. Refert primo obtutu pezizulam nigram.

Hab. in caulibus plantarum ignotarum in hortis Nazareth Americæ borealis.

B) Foliicolæ.

48. Vermicularia coptina Peck in Rep. on the St. Mus. N. York. — 1364
Peritheciis minutis, leniter prominulis, nigris, vertice setis divergentibus, 1-2-septatis coronatis; sporulis curvulis, utrinque acutis, hyalinis, 20 ≈ 2,5-3.

Hab. in foliis emortuis vel subvivis Coptidis trifoliæ, Buffalo, Sandlake, Sandy Creek Amer. bor.

49. Vermicularia punctiformis Niessl, Hedw. 1881, p. 46. — Peri- 1365 theciis punctiformibus, atris, setulosis; sporulis oblongis, subrectis, medio (spurie?) septatis, subhyalinis, 12 ≈ 3-4.

Hab. in foliis Oxalidis strictæ et corniculatæ in horto botanico Calcutta Indiæ. — An huc spectet Verm. punctiformis Fr. Summa p. 420, nullibi descripta, omnino latet.

50. Vermicularia Siphonis Thum. Fung. Litor. n. 155, tab. I. fig. 2. 1366 — Peritheciis epiphyllis, punctiformibus, gregariis, prominulis, minutis, atris; sporulis plus minusve cylindraceis, quinque sexnucleatis, utrinque rotundatis, simplicibus, hyalinis, 16 ≈ 4.

 ${\it Hab}.$ ad folia arida Aristolochiæ Siphonis, Gorizia Italiæ bor.

51. Vermicularia Mercurialis West. 5. Not. pag. 24. — Peritheciis 1367 amphigenis, minutissimis, rotundatis, nigris, sparsis, innatis, pilis rigidis divergentibus, $30-40~\mu$. longis obsitis; ostiolo irregulari; sporulis hyalinis, cylindricis, apicibus rotundatis, rectis, $7.5 \approx 2$, quandoque spurie 1-septatis.

Hab. in foliis Mercurialis perennis circa Mons in Belgio.

C) Fructicolæ.

52. Vermicularia Wallrothii Sacc. Fungi Veneti novi vel critici Ser. V. 1368 p. 199, Fusarium Chætomium Wallr. Flor. Cr. Germ. II. p. 242.

— Peritheciis (genuinis?) subglobosis obtusis, subsuperficialibus, nigris; setis cuspidatis, 150-200 ≈ 6-7, atro-brunneis (ita ut septa ægre conspiciantur), apice hyalinis obvallatis; sporulis copiosissimis, falcatis, utrinque acutis, 25-28 ≈ 3-3 1/2, granuloso-farctis, hyalinis.

Hab. in epicarpio Cucurbitæ lagenariæ putri in Germania; Selva et Padova Italiæ bor.

53. Vermicularia Cucurbitæ Cooke Hedw. 1878, p. 38, Grev. t. 99, 1369 fig. 10. — Peritheciis globosis, membranaceis, gregariis, hinc illinc circinatis, pilis rigidis brunneis obsitis; sporulis aliis linearibus, minutis. 15 ≈ 3, aliis (?) lanceolatis, acuminatis, triseptatis, hyalinis, 50 ≈ 5.

Hab. in fructibus Cucurbitæ, Aiken in Carolina inf. Am. oor.

III. In Monocotyledoneis.

54. Vermicularia Colchici Fuck. Symb. p. 111, et 374. — Peritheciis 1370 laxe gregariis, punctiformibus, ovato-conicis vel depressis, atronitidis, vertice brevissime parce penicillatis; sporulis fusiformibus, curvatis, uniseptatis, hyalinis.

Hab. in foliis languidis Colchici autumnalis in Rheno-

govia. - Forma Bromeliæ: in foliis ejusdem in Gallia.

55. Vermicularia Peckii Sacc. Verm. concentrica Peck et Cooke 1371 Rep. on the St. Mus. N. York, non Lev. — Peritheciis minutis, nigris, setulis rectis, rigidis, conspersis, in maculis arescentibus, subcircularibus concentrice dispositis; sporulis oblongis, leniter curvulis, utrinque acutis, 20-25 p. longis.

Hab. in foliis vivis Trillii erythrocarpi, Pine Valley Amer. bor. (Clinton). — Folia demum ad maculas perforantur. — Var. Violæ rotundifoliæ: peritheciis inordinate sparsis, æque phyl-

logenis. In America boreali.

56. Vermicularia concentrica Lèv. Ann. Sc. Nat. 1845, pag. 66. — 1372 Gregaria; peritheciis minimis, setosis, nigris, in series concentricas ordinatis, intus albis; sporulis cylindraceis, continuis, hyalinis.

Hab. in foliis Dracænæ um braculiferæ in insula Mascaren.

57. Vermicularia Liliaceorum Schw. Syn. Amer. bor. n. 1844. — Pe- 1373 ritheciis plerumque sparsis, primum tectis, innatis, atro-splendenti-

bus, subrotundis vel ellipticis, rarius confluentibus; centro elevato, coronato setis longis, filiformibus undique divergentibus; ceterum perithecium nudum; fibrillis basilaribus radiantibus.

Hab. frequens in caulibus Hemerocallidis, Allii et aliarum Liliacearum, Bethlehem Amer. bor.

58. Vermicularia Liliacearum West. Fl. Bat. Fung. II. p. 113. — 1374 Peritheciis innatis, minutis, sparsis, nitidis, rotundatis vel ovalibus, convexis, pilis tenuibus obsitis, dein vertice nudo poriformi apertis; sporulis cylindricis, utrinque attenuatis, hyalinis, plus vel minus curvatis, 20 = 5.

Hab. in caulibus emortuis Scillæ nutantis, Ornithogali pyrenaici, Triglochinis, Gladioli, Asphodeli, nec non in scapis Amaryllidis Belladonnæ, Iridis, Convallariæ in Gallia, Italia, Belgio, Germania. — Verisimiliter non diversa a Verm. Liliaceorum Schw. Subinde perithecia vere obsoleta, et tunc potius Calletotrichum.

59. Vermicularia Schenoprasi Auersw. et Fuck. Symb. p. 110, Sacc. 1375 Mich. II. p. 631. — Peritheciis gregariis, erumpentibus, minutis, aterrimis, obtuse conicis, vertice pilis sparsis, fuligineis, 90-100 × 7-8; sporulis tereti-fusoideis, leniter curvis, 25-28 × 3-4, continuis, hyalinis, stipitellatis.

Hab. in foliis squamisque bulborum Allii Schænoprasi in Germania et Gallia. — Sporulæ, teste Fuckel, septatæ, quales ipse non vidi.

60. Vermicularia circinans Berk. Gard. Chron. 1851, p. 595. — Ma- 1876 culis orbicularibus; peritheciis concentrice dispositis, mycelio radiante articulato hyalino impositis, minutissimis, setis rigidis, longis ornatis; sporulis oblongis, leniter curvis, utrinque obtuse attenuatis, 2-pluri-nucleatis, hyalinis.

Hab. in scapis, foliis bulborumque squamis Allii Cæpæ in Britannia, Italia, Pensylvania.

61. Vermicularia oblonga Desm. 11 Not. p. 363. — Peritheciis inna- 1377 tis, sparsis, numerosis, minutis, atris, subnitidis, ovatis v. oblongo-lanciformibus usque 1 mill. long., apice pertusis; setis fasciculatis, concoloribus tectis; sporulis curvatis, oblongis, utrinque acutis, subfusiformibus, 16-17 u. longis.

Hab. in caulibus siccis Tami communis in Gallia.

62. Vermicularia acuminata Schw. Syn. Amer. bor. n. 1846. — Pe- 1378 ritheciis sparsis, epidermide tectis, utrinque acuminatis, ellipticis,

centro elevato, nigro-nitentibus; setis paucis longis, subrectis, in apice sitis, inæqualibus nigris; rarius confluent.

Hab. in foliis et scapis Iridis virginicæ, Bethlehem Americæ bor.

63. Vermicularia Polygonati Schw. Syn. Amer. bor. n. 1847. — Pe. 1379 ritheciis e globoso-conicis, manifestim truncatis, nigris, vix nitentibus, sparsis, innatis, demum subliberis; setis in truncatura sparsis, erectis, rigidis, filiformibus.

Hab. passim in corruptissimis caulibus Polygonati. Bethlehem America bor.

64. Vermicularia relicina Fr. Summa V. S. p. 420 (ut opinor), Sacc. 1880 Mich. II. p. 270, Sphæria relicina Fr. S. M. II. p. 505. - Peritheciis sparsis, globoso-depressis, nigris; setis rigidulis, atro-fuligineis, obsolete septulatis, 200-300 = 7-10, quandoque sursum bifidis vestitis; sporulis tereti-arcuatis, utrinque obtusiusculis, 10 = 11/2, hyalinis, denticulis lateralibus basidiorum bacillarium, 80-90 ≥ 11/2, hyalinorum hærentibus.

Hab. in culmis putridis Zeæ Maydis et aliarum Graminearum in Suecia, Italia boreali et Germania. — A generis typo ob fabricam basidiorum alienam non parum recedit.

65. Vermicularia culmifraga Fr. Summa V. S. p. 420. - Minuta, dif- 1381 formis, erumpens, setis erectis, confertis, septatis obsessa; sporulis fusoideis, septatis (?), Verm. relicinæ duplo majoribus.

Hab. in culmis in Suecia.

66. Vermicularia denudata Schw. Syn. Amer. bor. n. 1855. — Pe- 1382 ritheciis sparsis, atris, maximis pro ratione culmi teneri, punctiformibus, rotundatis, innatis sed demum erumpentibus, satis elevatis, subtruncatis, rugosis; setis brevibus, deciduis (quod singulare).

Hab. in culmis et foliis Poarum etc., Bethlehem Amer. bor.

67. Vermicularia Melicæ Fuck. Symb. Myc. App. II. p. 81. - Peritheciis in maculis decoloratis, fusco-limitatis, demum in foliis aridis lineari-dispositis sparsisve, punctiformibus, nigris, pilis strigosis. simplicibus, concoloribus, 100 µ. long. obsitis; sporidiis fusiformibus, curvatis, utrinque acuminatis, 1-septatis, hyalinis, $26 \approx 4-5$.

Hab. in foliis vivis siccisque Melicæ unifloræ in Rhenogovia.

68. Vermicularia punctans Schw. Syn. Amer. bor. n. 1854, — Peri- 1384 theciis sparsis, innatis, numquam confluentibus, in pagina superiore folii pezizoideis; setis in inferiore pagina conspicuis, brevibus, sparsis, atris, densis, in perithecio punctiformi, rotundo-applanato autorbiculato.

Hab. rarius in foliis Andropogonis avenacei, Bethlehem Americæ bor.

69. Vermicularia graminicola West. Bull. Ac. roy. belg. Ser. 2. t. XII. 1385 n. 7. — Peritheciis innatis, minutissimis, sparsis, brunneis, rotundatis, pilis sparsis, brunneis obsitis; sporulis hyalinis, fusiformibus, rectis vel leviter curvis, utrinque attenuatis, 2-3-4-guttulatis, 30 ≈ 5.

Hab: in foliis Poæ sudeticæ in prov. Luxembourg (Crepin).

70. Vermicularia culmigena Desm. 11 Not. p. 363, Mich. II. p. 98. 1386

— Peritheciis nigris, minutissimis, innatis, in lineas ovato-oblongas longitudinaliter parallele seriatis; setulis epidermidem perforantibus brevibus; sporulis cylindraceis, utrinque obtuse attenuatis, plus vel minus curvatis, 9-11 = 1,5-2, pluriguttulatis, hyalinis.

Hab. in foliis graminum ex. gr. Dactylidis, Phlei etc. in Belgio, Gallia, Pensylvania.

IV. In Acotyledoneis.

71. Vermicularia filicina Schw. Syn. Amer. bor. n. 1861. — Peri- 1387 theciis aggregatis, frequenter in macula rubescenti aut expallenti, applanatis, ovalibus, tectis, nigris, prorumpentibus centro elevato; setis brevibus aut longiusculis, fusco-nigris, subsparsis in apice applanato; sæpissime inveniuntur perithecia setis omnino orbata.

Hab. ad caudices Osmundæ et Onocle'æ exoletos, Bethlehem Amer. bor.

72. Vermicularia thecicola Schw. Syn. Amer. bor. n. 1842. — Pe- 1888 ritheciis minutis difformibus, interdum longitudinaliter confluentibus, subnitentibus, innatis, aterrimis; setis longiusculis aterrimis, demum densis, sed longitudine inæquali, longioribus divergentibus; peritheciis apice concaviusculis.

Hab. rarissima species in thecis exoletis Dicrani scoparii, Salem Amer. bor.

V. Species indescripta.

- 73. Vermicularia protracta Fr. Summa Veg. Scand. p. 420. Ad 1389 sarmenta Periclymeni in Suecia.
- DOTHIORELLA Sacc. Mich. II. p. 5, (Etym. a Dothiora, cui analogum genus), Dothiora Berk. Outl. p. 316, non Fuck., Dothiopsis Karst p. p. Perithecia erumpentia in stromate basilari botrycse aggregata, vel subinde stromate pulvinato immersa, globulosa, plus

minus papillata, coriaceo-membranacea. Sporulæ ovoideæ vel oblongæ, continuæ, hyalinæ, sæpius stipitellatæ. — Habitus Botryosphæriæ, cujus spermogonia habenda sunt. Dothiora pyrenophora Berk. *et sphærioides Berk., sec. Cooke et Capron, Botryodiplodiam spectant

I. Species minores.

Dothiorella gregaria Sacc. Mich. II. p. 343, Doth. Berengeriana 1390 Sacc. in Rev. Mycol. 1880, p. 190, ex errore, nec Mich. II. p. 271.
 — Peritheciis subcutaneo-erumpentibus, in acervulos hiuc inde aggregatis vel gregariis, intus pallidis; sporulis oblongo-fusoideis, 18-22 ≈ 6-6¹/2, nubilosis, hyalinis, basidiis acicularibus, 25-30 ≈ 3, suffultis.

Hab. in ramis corticatis Populi canadensis, Corni, Salicis etc. in Gallia et Italia. — Forte pycnidium Physalosporæ gregariæ Sacc.

2. Dothiorella Ribis (Fuck.) Sacc. Podosporium Ribis Fuck. Symb. 1391 Myc. p. 205, t. I. f. 27, Diaporthes Strumellæ status spermog. — Peritheciis 1-6, aggregatis, in stromate nidulantibus, seminis Papaveris magnitudine, globosis, perforatis, atris, semper tectis, pustulas valde prominulas formantibus, demum evacuatis; sporulis pedicellatis, dein liberis, ovato-oblongis, sæpe curvatis, simplicibus, 30 ≈ 14, hyalinis, ut massa candida expulsis.

Hab. in ramulis exsiccatis Ribis nigri, Grossulariæ, rubri, alpini, floridi in Germania.

3. Dothiorella fraxinea Sacc. et Roum. Reliq. Lib. IV. n. 90. — Pe- 1392 ritheciis cæspitoso-erumpentibus globulosis, ¼ mill. diam., vix papillatis, atris; nucleo albido-griseo; sporulis oblongo-ellipsoideis, utrinque obtusiusculis, 12 ≈ 5, hyalinis; basidiis non visis.

Hab. in cortice Fraxini in Arduennis (LIBERT). — Forte huc spectat Sphæropsis Fraxini Lamb. Fl. Myc. Belg. II., quæ lecta est in ramis Fraxini prope Liege Belgii.

4. Dothiorella Liriodendri (Cooke) Sacc. Cfr. Syll. I. p. 465. — Pe· 1393 ritheciis in stromata applanata rimose erumpentia dense aggregatis, albo-farctis, vix papillatis; sporulis oblongo-fusoideis, 30 ≈ 5, granuloso-hyalinis, breve stipitatis.

Hab. in cortice Liriodendri, Aiken in Carolina inf. America bor.

5. Dothiorella Betulæ (Preuss) Sacc. Sphærocista Betulæ Pr. Fungi 1394 Hoyersw. n. 44. — Gregaria erumpens; peritheciis corneis, supra Sphærioideæ, Hyalosporæ, Dothiorella.

237

incrassatis, atris; ostiolo perforato; nucleo albo, mucoso; cirro albo; basidiis filiformibus, albis; sporulis elongatis, albis, continuis.

Hab. in cortice Betulæ, Hoverswerda.

6. Dothiorella populnea Thüm. Pilzfl. Sibir. n. 791. — Peritheciis 1395 botryose bi-triaggregatis, sparsis, globulosis, erumpentibus v. exsertis, fere liberis, submagnis, durissimis, nigrescentibus; sporulis simplicibus, brevi-cylindraceis, utrinque rotundato-truncatis, enucleatis, hyalinis, 3,5 ≈ 1,5, numerosissimis.

Hab. in cortice vetusto Populi. Tremulæ prope Minussinsk Sibiriæ asiaticæ.

7. Dothiorella populea Sacc. Mich. I. p. 358 (sub *Phoma*). — Bo. 1396 tryosphærioides; peritheciis hinc inde aggregatis, innato-erumpentibus, globulosis, minutis, nigris, vix papillatis; sporulis obovoideis, $10 \approx 7$, apice rotundatis, nubilosis, hyalinis, (basidiis nullis visis).

Hab. in ramis corticatis Populi fastigiatæ prope Alengon in Gallia (C. C. GILLET).

8. Dothiorella excavata (Preuss) Sacc. Sphærocista excavata Preuss 1397 F. Hoyersw. n. 43. — Pustulis gregariis, minutis, hemisphæricis; peritheciis nigris, pulpa alba; basidiis filiformibus; sporulis minutis, oblongis, utrinque rotundatis, hyalinis, albis.

Hab. in cortice Kerriæ japonicæ, Hoyerswerda.

9. Dothiorella stromatica (Preuss) Sacc. Sphærocista stromatica Pr. 1398 F. Hoyersw. n. 37. — Erumpens; stromate elato verruciformi, tumido, diviso-lobato sive composito, corneo, humido subgelatinoso, intus fusco; partibus apice subrotundis levibus, subnitidis; peritheciis ovatis, in apice perforatis; nucleo albido pulposo; cirro albo, expulso; basidiis continuis, ramosis, longis; sporulis oblongis, minutissimis, albis.

Hab. ad ramos Pruni Cerasi transversim insidens, Hoyerswerda.

10. Dothiorella sorbina Karst Symb. Myc. Fenn. XV. pag. 154. — 139 Peritheciis cortici innatis, erumpentibus, cæspitosis, obovoideis vel rotundatis, sæpe inæqualibus, vertice subinde depressis, astomis, interdum ostiolo papillato donatis, aterrimis, 0.3 mill. diam.; sporulis fusoideo-elongatis, rectis, eguttulatis, hyalinis, $3-5 \approx 0.3$.

Hab. in cortice ramorum exsiccatorum Sorbi aucupariæ prope Vasa in Fennia.

11. Dothiorella multiplex (Preuss) Sacc. Sphærocista multiplex Pr. 1400 F. Hoyersw. n. 38. — Composita, carnosa, basi stromati connata, supra in ramos subæquales apice tumidos diffusa; peritheciis ex-

tremis insertis; ostiolo perforato; basidiis longis, filiformibus; sporulis continuis, oblongis, albis; pulpa sporarum in cirros expulsa. Hab. in cortice Sorbi aucupariæ, Hoyerswerda.

12. Dothiorella cæspitosa (Preuss) Sacc. Sphærocista cæspitosa Pr. 1401 F. Hoyersw. n. 42. - Erumpens; stromate elato verruciformi, diviso-lobato sive composito, atro, corneo, humido subgelatinoso. intus fusco, seu atro-fusco; partibus apice conicis, levibus, subnitidis, dein collapsis; peritheciis perforatis, ovatis, incanis; nucleo pulposo albido; cirro longo, albo expulso; basidiis continuis, filiformibus; sporulis oblongis, minutis, albis.

Hab. in cortice Sorbi aucupariæ emortuæ, Hoyerswerda. - "An Sphæria cæspitosa Tode?".

13. Dothiorella pithyophila Sacc. et Penz. Mich. II. p. 619. — Cæ- 1402 spitulis cortice fisso erumpentibus vel in cortice interiore subsuperficialibus, pulvinatis, depressis, 1-2 mill. diam., intus et extus nigricantibus, superficie (e peritheciis densis minutis) verruculosis; sporulis cylindraceis, utrinque rotundatis, rectiusculis, 7-10 = 2,8, hyalinis; basidiis dense fasciculatis, brevibus, bacillaribus e strato prolifero crassiusculo subalbo oriundis.

Hab. in parte interiore corticis Pinorum, Le Sapey (Isère) Galliæ (THERRY). — Videtur forma peculiaris Fusicocci bacillaris.

14. Dothiorella Berengeriana Sacc. Mich. II. p. 271. — Peritheciis 1403 cæspitoso-aggregatis, vere botryosphæroideis, globoso-applanatis, intus albis, ostiolis indistinctis; sporulis cylindraceis, utrinque obtusiusculis, rectis vel leniter curvis, 6 = 1-2, hyalinis, basidiis filiformibus fasciculatis suffultis.

Hab. in ramis Rhamni Frangulæ, Sophoræ, Castaneæ, Mori, Tiliæ in Italia boreali, Gallia et Germania. - Forma Syringæ: acervulis minoribus; sporulis crassioribus, 6-8 = 3-4. In Arduennis. — Spermog. videtur Botryosphæriæ Berengerianæ.

15. Dothiorella pyrenophora (Karst) Sacc. Dothiora pyrenophora 1404 Karst Symb. Myc. Fenn. XIII. p. 9 et forte Fr. p. p. - Peritheciis dense pulvinato-cæspitosis, basi stromatica fultis, erumpentibus, globulosis, inæqualibus, intus pallidis; sporulis ovalibus, 3-5 = 1, 5-2, hyalinis.

Hab. in ramis Sorbi aucupariæ in tota Fennia et Lapponia. — *D. Mali Karst l. c.: sporulis paulo majoribus, 6-10 ≈ 3. In ramis Mali, Mustiala. - *D. Betulæ Karst l. c.: stromatibus sporulisque, quam in typo, paulo majoribus. In ramis Betulæ ibidem. - *D. Juniperi Karst l. c.: stromatibus minoribus; sporulis

ovoideis vel obovato-ellipsoideis, utrinque attenuatis, $4-6 \approx 2-3$. In fructibus Juniperi communis ibidem. — *D. Salicis Karst l. c.: stromatibus epidermide lacerata tectis, minoribus; sporulis $4-8 \approx 1-3$. In ramis Salicis prope Jakobstad et Kola. — «An tota cum formis species satis diversa a mea D. Berengeriana? Jam monui D. pyrenophoram Berk. esse, sec. Cooke, Botryo-diplodiam».

16. Dothiorella Syringæ (Karst) Sacc. Dothiora Syringæ Karst Hedw. 1405 1884, p. 21. — Stromatibus confertis, seriatim dispositis, nonnumquam subconfluentibus, per corticem erumpentibus, applanatis, forma varia, ut plurimum angulato-rotundatis vel angulato-oblongatis, brevibus, nudis, nigris, siccis admodum duris, latis usque ad 1 mill. diam.; sporulis ovoideis vel ovalibus, simplicibus, hyalinis, $4-6 \approx 3 \mu$. diam.

Hab. in ramis emortuis Syringæ vulgaris prope Aboam Fenniæ.

17. Dothiorella aterrima (Fuck.) Sacc. Cfr. Syll. I. p. 458. — Stro-1406 matibus corticalibus, atris, orbicularibus, subplanis, corrugatis, loculis intus albis subglobosis; sporulis oblique fusoideis stipitatis, 48 = 8, hyalinis.

Hab. in rimis corticis Ulmi campestris in Rhenogovia.

18. Dothiorella macrospora (B. et C.) Sacc. Sphæropsis macrospo- 1407 ra B. et C. North Am. F. n. 413. — Peritheciis in massam communem deplanatam congestis; sporulis elongatis subfusiformibus, subinæquilateris v. subclavatis, eguttatis, 25-35 μ. longis.

Hab. in ramis Sambuci canadensis et Coriariæ myrtifoliæ in Pensylvania, Magnoliæ glaucæ in Alabama.

Dothiorella Placenta (B. et C.) Sacc. Sphæropsis Placenta B. et 1408
 C. Cub. Fungi n. 561. — Stromate placentiformi undulato papilloso; sporulis obovatis hyalinis, 15 μ. longis, sporophoris æquillongis.

Hab. in cortice Aurantiorum in insula Cuba. — Affinis D. undulatæ sed minor et magis regularis.

20. Dothiorella Tulasnei Sacc. Cfr. Tul. Sel. Carp. III. t. XX, f. 1409 16-18. — Stromatibus e basi contracta alte pulvinatis, (ex ostiolis prominulis) rugosis, nigro-virentibus, intus pallidioribus; peritheciis copiosis ovoideis, periphericis, intus albis; sporulis exiguis cylindraceis, utrinque obtusiusculis, $3.5-5 \approx 1$, hyalinis; basidiis filiformibus 16μ . longis, fasciculato-ramosis.

Hab. in ligno quercino, socio Chlorosplenio æruginoso, cu-

jus sec. Tulasne esset spermogonium; sed mihi nimis absonum videtur formam compositam peritheciophoram ad discomycetem simplicem spectare.

21. Dothiorella advena Sacc. Mich. II. p. 620. — Peritheciis in cæ- 1410 spites dothideaceos nigros collectis, globulosis, vix papillatis, intus albis, erumpentibus; sporulis elongato-fusoideis, 50 = 8-10, rectiusculis, nubilosis, hyalinis, basidiis bacillaribus, 30-35 = 11/2, suffultis.

Hab. in ramis corticatis quercinis in Italia, Gallia, Germania. — Spermogonium Botryosphæriæ advenæ.

22. Dothiorella quercina (C. et Ell.) Sacc. Sphæropsis quercina C. 1411 et Ell. Grev. V. p. 32. — Peritheciis cæspitoso-congestis, erumpentibus, epidermide cinctis; sporulis ovoideis v. ellipsoideis, granulosis, majusculis, 20-40 ≈ 12-20, crasse pedunculatis.

Hab. in ramis Quercus albæ et luteæ, New Jersey Amer. bor. — Habitus fere Diatrypes. — An diversa a Dothiorello advena Sacc.?

23. Dothiorella glandulosa (Cooke) Sacc. Sphæropsis glandulosa Cooke 1412 Hedw. 1878, p. 38, Grevill. t. 99, f. 9. — Acervulis erumpentibus, diatrypeformibus, multicellulosis, atris, elongato-fissis; sporulis lanceolatis v. clavatis, hyalinis, 30 ≈ 6.

Hab. in cortice Ailanthi glandulosæ, in Carolina Amer. borealis (RAVENEL).

24. Dothiorella lentiformis (Pr.) Sacc. Sphærocista lentiformis Pr. 1413 F. Hoyersw. n. 311. — Peritheciis tenuibus, biconvexis, minutis, subconfertis, papillatis nullis, sub myelostromate elongatis conceptis, tum ostiolis perforatis; nucleo albo, mucoso; basidiis filiformibus; sporulis fusiformibus, obtusis, varie magnis, albis, guttulis oleosis plurimis repletis.

Hab. in lignis exsiccatis, Hoyerswerda.

25. Dothiorella torulosa (B. et C.) Sacc. Sphæropsis torulosa B. et 1414 C. North Am. Fungi n. 418 (bis). — Peritheciis in pustulas parvas mammiformes rugosas congestis, epidermide cinctis; sporulis ellipticis apiculatis, sporophoris torulosis, 10-13 ≈ 9-10.

Hab. in corticibus, New England Amer. bor. (Sprague). — Basidia apice subinde subtriangula indeque trispora.

Dothiorella undulata (B. et C.) Sacc. Sphæropsis undulata B. et 1415
 C. Cub. Fungi n. 560. — Stromate nigro suborbiculari undulato, apicibus peritheciorum papilloso; sporulis obovatis magnis, hyalinis, 30-33 μ. longis.

Hab. in corticibus emortuis in Cuba. Hypocream fere imitatur. — Species homonyma in B. et Br. F. of. Ceyl. n. 789 (in corticibus in insula Ceylon) differre videtur, nam sporulæ ibi describuntur: $14-17 \approx 7-10$.

27. Dothiorella Juniperi (Fr.) Sacc. Sphæria Juniperi Fr. S. M. II. 1416 p. 366 Sacc. Syll. II. pag. 372. Dothiopsis Juniperi (Fr.) Karst. Hedw. 1884, pag. 20. — Erumpens, oblonga; peritheciis globosis ostiolisque prominentibus nigris, furfure albo tectis; sporulis cylindraceis, utrinque obtusis, rectiusculis, continuis, hyalinis, $12 \approx 2$.

Hab. in cortice interiore Juniperi in Suecia, Gallia, Fennia. 1417

28. Dothiorella pithya Sacc. F. Ven. Ser. IV. pag. 5. — Peritheciis, stromati pulvinato, 1-2 mill. diam., subimmersis, nucleo albo, contextu botryosphæriaceo; sporulis oblongis, $12 \approx 6-7$, rarius $18-20 \approx 6$, granulosis, hyalinis, stipitellatis.

Hab. in cortice ramorum Pini Strobi et Abietis in agrotarvisino et patavino Ital. bor.

29. Dothiorella latitans (Fr.) Sacc. Dothiopsis latitans (Fr.) Karst. 1418 Hedw. 1884, p. 20. Phyllachora latitans (Fr.) Sacc. Syll. II. p. 610. — Immersa, epidermide lacerata tecta, stromate fusco-atro, loculis immersis albis; sporulis cylindraceis, rectiusculis, utrinque obtusis, 12-13 \(\times 2\).

Hab. ad folia sicca nigrificata Vaccinii Vitis-idææ in Suecia et Fennia. — An Fusicoccum?

30. Dothiorella? Pinastri (Fr.) Sacc. Dothidea Pinastri Fr. Elench. 1419 II. p. 123. — Erumpens, epidermide lacerata cincta, oblongo-difformis, atra; ostiolis umbilicatis; cellulis difformibus hyalinis; sporulis subcylindricis, rectis, continuis.

Hab, in foliis deciduis Pini silvestris in Suecia et Belgio. — Spermogonium videtur Phacidii laceri Fr. — In foliis delapsis exsiccatis in ramulis ad terram locis udis dejectis adhuc persistentibus et stramineo-pallentibus observantur plagæ determinate griseæ et carie quasi fortius corrosæ (non vero circumscriptæ), in quibus per epidermidem fere tegentem erumpunt tubercula minuta, oblongo-difformia, atra, opaca, ex ostiolis in superficie inæqualibus, intus fusco-atris, quibus transversim sectis in conspectum veniunt cellulæ forma variæ, nucleo hyalino fuscescente farctæ, magis fluxili, quam in reliquis.

31. Dothiorella congesta (Lév.) Sacc. Sphæropsis congesta Lév. Ann. 1420 Sc. Nat. p. 62. — Hypophylla erumpens; peritheciis fasciculato—



cæspitosis, elongatis, rugulosis nigris, nucleo albo, ostiolis crassis obtusis, nitidis; sporulis elliptico-oblongis, continuis, hyalinis.

Hab. in foliis Podocarpi in Capite Bonæ Spei Afr. (DREGE),

32. Dothiorella Euphorbii Sacc. F. Ven. Ser. IV. p. 5. (Botryosphæ-1421 ria). — Peritheciis cæspitosis v. subsparsis, erumpentibus, nucleo albo, contextu botryosphæriceo; sporulis cylindraceis $10 \approx 1^{1}/_{2}$ rectis, hyalinis, 2-guttulatis, basidiis filiformibus, $18 \approx 1$, aduncis suffultis.

Hab. in caule Euphorbiæ Cacti putrescente in horto botanico patavino.

33. Dothiorella botrya Sacc. Mich. II. p. 145. — Peritheciis hinc 1422 inde aggregatis, subcutaneo-erumpentibus, globulosis vix papillatis, nigris, 110-120 μ . diam., intus albis; sporulis fusoideo-oblongis, utrinque obtusiusculis, $28-32\approx6-7$, varie guttulatis hyalinis, basidiis filiformibus dimidio brevioribus suffultis, nec non paraphysibus (?) filiformibus longioribus obvallatis.

Hab. in ramis corticatis Manioth carthagenessis in Carolina austr. Amer. bor. (RAVENEL).

34. Dothiorella Galegæ Sacc. F. Ven. Ser. IV. p. 5 (Bolryosphæria). 1423 — Peritheciis tectis sparsis, nucleo albo, hyphis fuligineis repentibus cinctis, contextu botryosphæriaceo; sporulis fusoideis, hyalinis, 25 ≈ 6-8, initio stipitellatis.

Hab. in caulibus Galegæ officinalis in Ital. bor. - Per-

affinis Doth. gregarice.

35. Dothiorella botryosphærioides Sacc. Mich. I. p. 145. — Perithe- 1424 ciis hinc inde dense aggregatis, globulosis, obtusis, 100 \(\rho\). diam., subcutaneo-erumpentibus, atris, intus pallidis, contextu luteo-fuligineo, parenchymatico; sporulis ovoideo-oblongis, 8 \(\times\) 3, minute 2- guttulatis, hyalinis, basidiis brevissimis suffultis.

Hab. in caule Gossypii in Carolina infer. Americæ borealis

(RAVENEL).

36. Dothiorella erumpens (B. et C.) Sacc. Sphæropsis scripta B. et 1425 C. Exot. Fungi p. 280 — Erumpens, pulvinata, subcarnosa, 2 mill. cr., nigra, superficie corrugata; peritheciis globosis, brevicollibus, ostiolo obsoleto; sporulis late oblongis, hyalinis, breve stipitatis, 20 \(\rho\). longis.

Hab. in corticibus e crustis lichenum erumpens, Surinam.

II. Hydnopsis Tul. Stromate globuloso, majusculo.

37. Dothiorella (Hydnopsis) Eugeniæ Tul. Sel. F. C. III. pag. 26. - 1426

Stromate globoso, avellanam æquante, sæpe rimoso, deformi, intus extusque atro, tuberculis pyramidatis seu tetra-pentagonis (tuberis ad instar) exasperato, intus ad superficiem cavernuloso-locellato venisque albidis ad basim variegato; sporulis ovoideis, hyalinis, utrinque obtusis, $13-15 \approx 5.6-6.4$; basidiis e parietibus cavernularum ortis cylindraceis, continuis, 15-20 μ . Iongis.

Hab. in ramulorum gemmis et pedunculis hinc deformatis et abortivis Eugeniæ Bridgesii in Chile, ubi fungus singularis Pilra audit. — Species altera Hydnopsis graminicola Tulasneo l. c. p, 28, in culmis gramineis in Nova Granala obveniens, stroma præbet globulosum, solidum, pisum æquans, extus aculeolatum et conidiophorum (conidiis sphæricis, aureis, 3,5 2, diam), at sporulæ hucusque ignotæ.

- RABENHORSTIA Fr. Summa Veg. Scand. p. 410 (Etym. a sollerti meritissimoque cryptogamista germanico L. Rabenhorst). Galeraicta Preuss F. Hoyersw. n. 46. Spilobolus Link p. p. Stroma erumpens globoso-truncatum, intus locellatum, coriaceo-carbonaceum, apice sæpe circumscissum et cum cortice secedens. Sporulæovoideo-oblongæ, continuæ, hyalinæ, stipitatæ. Spermogonium Hercosporæ.
- 1. Rabenhorstia Tiliæ Fr. Summa p. 410. Sphæria Tiliæ Fr. S. M. 1427 II. p. 485 p. p. Sphæria subsecreta Sow. Stromatibus sparsis, globoso-fruncatis, levibus nigris, erumpentibus, intus pluriloculatis pallidioribus, disco emergente, inæquali, crasso truncato nigro; sporulis ellipsoideis, $12-14 \approx 8$, nubilosis, hyalinis; basidiis filiformibus fasciculatis, $60 \approx 1^{1}/_{2}$.

Hab. in ramis Tiliæ europææ in Gallia, Britannia, Italia, Germania, Belgio. — Pycnidium Hercosporæ Tiliæ.

2. Rabenhorstia conica (Pr.) Sacc. Galeraicta conica Pr. F. Hoyersw. 1428 n. 46. — Pustulis minutis, gregariis, conicis, nigris; stromate carnoso, interne albo, centro subcolumelliformi apicem operculatum dejiciente, perithecio simplici, nigro, ostiolo centrali; cirro albo; basidiis minutis, filiformibus, continuis; sporulis subfusiformibus, utrinque rotundatis, subcurvatis, minutis, albis.

Hab. in cortice emortuis Cytisi Laburni in hortis Hoyerswerda.

3. Rabenhorstia rudis Fr. Summa p. 410. Sphæria rudis Fr. Elench. 1429 II. pag. 98. — Conferta, crusta effusa ambiente nigra; stromatibus conico-hemisphæricis v. breve turriformibus, obtusis, initio

tectis, dein epidermide rupta subcircumscissis, nunc minoribus sub-1-locularibus, nunc majoribus labyrintheo-locellatis, sæpe fusco-villosulis, fuligineo-nigris, nucleo albido-roseo; sporulis subovato-oblongis, utrinque obtusis, $6-8 \approx 2-3$, biguttatis; basidiis filiformibus, 20μ , longis.

Hab. in ramis Cytisi Laburni in Gallia, Germania, Italia, Britannia — Diplodia rudis Desm. et Kickx penitus diversa est; sed Phoma rudis Sacc. forte nil est nisi forma minor sub-1-locularis.

4. Rabenhorstia deformis (Fr.?) Karst. Hedw. 1884, p. 58. — Stro- 1430 matibus gregariis, innatis, sphæroideo-depressis vel pulvinatis, emergentibus, bullas corticales efficientibus; ostiolo erumpente, plus minus elongato, atro, 1-2 p. lat.; sporulis botuliformibus 4-6 ≈ 1-1,5.

Hab. in libro et sub cortice Piceæ excelsæ prope Wasam Fenniæ.

Species dubiæ.

- 5. Rabenhorstia clandestina Fr. Summa p. 410. Sphæria clandesti- 1431 na Fr. Cfr. Sylloge II. p. 419.
- 6. Rabenhorstia personata Fr. Summa p. 410. Sphæria personata 1432 Fr. Cfr. Sylloge II. p. 418.
- 7. Rabenhorstia adpressa Fr. Summa p. 410 (sine diagnosi). In Sue- 1433 cia boreali.
- FUCKELIA Bon. Abhandl. p. 135 (Etym. a præclaro mycologo L. Fuckel). Stromata erumpentia globoso-pulvinata, basi stipitiformi crassa, sed brevi suffulta, solida extus fusca, intus in locellos angulosos copiosos pallidiores (*Tuberis* ad instar) ubique partita. Sporulæ ellipsoideæ, continuæ, hyalinæ, stipitatæ.
- Fuckelia Ribis Bon. Abhandl. p. 135. Karst. Myc. Fenn. I. p. 215-1434
 216. Stromatibus v. conceptaculis subsphæroideis, glabris, fulvo-nigrescentibus, rugosis, solidis, intus in locellos angulosos numerosissimos partitis; sporulis ovoideo-oblongis, 8 ≈ 4, crasse 2-guttatis simulateque 1-septatis, hyalinis.

Hab. in ramis Ribis rubri, nigri et petræi in Germania,Gallia, Fennia. — Est spermogonium Cenangii ribesii.

PLACOSPHÆRIA Sacc. Mich. II. p. 115 (Etym. plax tabula, crusta, et Sphæria). — Stromata effusa atra epidermide sæpe velata, intus distincte v. obsolete locellata. Sporulæ oblongæ, fusoideæ v. cy-

lindraceæ, continuæ, typice stipitellatæ. — Quum nomen Notarisianum *Placosphæriæ*, Euryachoræ synonymum sit, indeque supervacaneum, ad ejusdem *Euryachoræ* spermogonium designandum limitare propono.

1. Placosphæria Galii Sacc. Mazzantiæ Galii spermog. Mont. Syll. 1435 p. 246. — Stromate innato, oblongo, convexo, intus albido, extus nigro; loculis 1-5, membranaceis pallidis, ostiolis prominulis; sporulis lineari-oblongis, 8-10 \u222223, hyalinis, rectis, utrinque obtusis.

Hab. in caulibus Galii Molluginis et Aparines in Gallia, Italia, Germania.

2. Placosphæria Sedi Sacc. Mich. II. p. 115. — Stromatibus late et vage 1436 effusis piceis, subplanis, epidermide nigrificata velatis, intus crebre minute locellatis; contextu parenchymatico fusco; sporulis bacillari-falcatis, 22-24 \(\times 2\), utrinque obtusiusculis, pluriguttulatis hyalinis, basidiis brevissimis obtusis suffultis.

Hab. in caulibus Sedi Telephii, Rouen Gallia (LETENDRE).

— Spermogonium Euryachorae Sedi Fuck.

3. Placosphæria Stellatarum Sacc. Mich. II. p. 353. — Stromatibus 1437 amphigenis, minutis subcircularibus, ½ mill. diam., nigris, intus plurilocellatis basi hyphulis fuscis vestitis; contextu parenchymatico, fuligineo; sporulis bacillaribus, 30-40 = 1½-2, utrinque obtusiusculis, 5-6-guttulatis, hyalinis.

Hab. in foliis nondum emortuis Galii v. Sherardiæ, Saintes Galliæ (Brunaud). — Phyllachora punctiformis Fuck. longe differt.

4. Placosphæria Stellariæ (Lib.) Sacc. Mich. II. p. 283. Euryacho- 1438 ra Stellariæ (Lib.) Fuck. — Stromatibus gregariis, folio innatis, circulari-oblongis v. subangulosis, rufo-nigricantibus; sporulis cylindraceis, 12-15 ≈ 2, subrectis, basidiis teretibus dimidio brevioribus suffultis.

Hab. in foliis caulibusque Dianthi monspessulani, Belluno Italiæ borealis, et Stellariæ in Arduennis et Rhenogovia.

5. Placosphæria Onobrychidis (DC.) Sacc. Mich. II. p. 283. Rhytisma 1439 Onobrychidis DC. Mem. Mus. III. p. 324. — Stromatibus folio innatis, amphigenis, applanatis, atris, ambitu oblongis, 8-12 = 3-5 mill., intus obscure plurilocularibus (?); sporulis copiosis, gyriniformibus, nempe ovoideis, 8-10 = 2-2½, hyalinis, deorsum in caudam filiformem (stipitem adhærentem) 15-18 = ½, productis.

Hab. in foliis caulibusque Lathyri latifolii in Euganeis Ital. bor., in Gallia et Germania.

6. Placosphæria aterrima (Lév.) Sacc. Ascospora aterrima Lév. Ann. 1440 sc. nat. 1846, p. 276 — Peritheciis gregariis, globosis, stromate innato ruguloso, nigro, maculiformi latitantibus; ostiolis obsoletis; sporulis ovalibus erectis, continuis, pellucidis.

Hab. in foliis arboris ignotæ in Martinica.

7. Placospheria ficicola (Lev.) Sacc. Ascospora ficicola Lev. Ann. 1441 sc. nat. 1846, p. 277. — Peritheciis hypophyllis globosis astomis in stromate effuso nigro maculiformi latitantibus; sporulis elongatis continuis rectis vel curvatis, sepe fusiformibus.

Hab. in foliis Fici hispidæ in Java insula.

Placosphæria? nitida (Lev.) Sacc. Ascospora nitida Lev. — Stromate obliterato; peritheciis hypophyllis, sparsis, innatis, prominulis, levibus, atro-nitidis, ostiolis nullis; sporulis globosis v. ovalibus, simplicibus, hyalinis.

Hab. in foliis Acaciæ in Abyssinia. — «An potius Phoma?»

Placosphæria graminis Sacc. et Roum. Mich. p. 632 (*Agropyri). 1443
 Stromatibus oblongis, sæpius hypophyllis, applanatis, subinnatis, nigris, nitidulis; sporulis oblongis, subfusoideis, 25-28 = 5-6, leniter curvis, 2-3-nucleatis, hyalinis.

Hab. in foliis languidis Agrostidis, Rouen Gallie (Malbranche). — Forte spermogonium Phyllachoræ Agrostidis Fuck. — *anceps (P.? graminis S. et Roum. Mich. 631). — Stromatibus subcutaneis effusis, maculiformibus, piceis; nucleis parum distinctis; sporulis cylindraceo-curvulis, utrinque rotundatis, 20-24 = 4, hyalinis, denique 2-septatis, vix constrictis, basidiis teretiusculis suffultis. In foliis graminum in Arduennis (Libert). — Habitus Phyllachoræ.

10. Placosphæria dothideoides (Mont.) Sace. Ascospora? dothideoides 1444 Mont. Syll. n. 1007. — Stromate minuto, lineari-lanceolato, nigro, epidermide tecto, ¾ mill. long.; peritheciis seu loculis 50-100 μ, diam., orbicularibus oblongisve longitrorsus biseriatis; nucleis albis; sporulis oblongo-linearibus, hyalinis, biguttulatis, 6-7 μ, long., sporophoris brevibus fultis.

Hab. in foliis Phragmitis amphigena apud Montaud-lez-Miramas Galliæ (Castagne). — Habitus Phyllacheræ graminis, sed multo minor.

APPENDIX

Cliostomum Fr: [Rhytismella Karst.] Stroma subcorneum, submultiloculare, primo clausum, dein rimose dehiscens (An lichen?).

11. Placosphæria corrugata (Ach.) Karst. Hedw. 1884, p. 60. Clio- 1445

stomum corrugatum (Ach.) Fr. Summa p. 121. Lecidea corrugata Ach. Syn. p. 18. — Gregaria, superficialis, rugoso-plicata, planiuscula, interdum subsphæroidea v. depresso-concava, cornea, paucilocularis, atra, conceptaculo rimis pluribus flexuosis dehiscente, fragili, nigra, 1/2-2 mill. lat.; sporulis elongatis v. botuliformibus, rectis v. curvulis, $3 \approx 0.5$.

Hab. in ligno indurato pineo, alneo, quercino (in thallo lichenum?) in Suecia, Britannia, Gallia, Germania, Italia.

- FUSICOCCUM Corda in Sturm Crypt. Fl. f. 52, emend. Sacc. Mich. II. p. 99. (Etym. fusus et coccum, quasi sporulæ fusoideæ in cocci formam compactæ). Dothiopsis Karst. p. p. Stroma subcutaneo-erumpens, convexum v. conicum, subcoriaceum, atrum intus plus v. minus distincte pluri-loculare. Sporulæ fusoideæ, continuæ, hyalinæ, plerumque majusculæ et rectæ. Sub hoc genere, a Corda sat vage definito. Cytosporæ species colligo, quæ sporulis majusculis fusoideis utuntur.
- 1. Fusicoccum Æsculi Corda in Sturm Deutsch. Crypt. t. 52, Sacc. 1446 Mich. II. p. 99. Stromatibus erumpentibus conoideis, fuscis, intus obsolete plurilocularibus; sporulis fusoideis, $23-30 \approx 5$, basidiis bacillaribus, $20-30 \approx 1\frac{1}{2}-2$, suffultis.

Hab. in ramis Hippocastani in Bohemia et Italia bor.

2. Fusicoccum fibrosum Sacc. Diaporthes fibrosæ st. sperm. Sacc. 1447 Syll. I. p. 618. — Stromatibus conicis, erumpentibus, pluricellularibus, cellulis pulpa luteo-fusca fretis; sporulis ellipsoideis, basi acuminatis, continuis, hyalinis, nucleolatis, 11 ≈ 5.

Hab. in ramis truncisque exsiccatis Rhamni cathartici in Italia bor. et verisimiliter in Suecia, Britannia, Germania, Belgio, Gallia.

3. Fusicoccum ornellum Sacc. Mich. II. p. 99. — Stromatibus coni- 1448 cis, corticolis, innato-erumpentibus, griseis, 2-4-cellularibus; sporulis oblongo-fusoideis, utrinque obtusiusculis, 12-15 = 31/2-4, hyalino-farctis, curvulis, basidiis filiformibus, 15-20 = 21/3, e strato proligero ochraceo oriundis suffultis, accedentibus paraphysibus bacillaribus, 80 = 3.

Hab. in ramis Fraxini Orni in Italia boreali et in Arduennis.

4. Fusicoccum Schulzeri Sacc. in Sch. Micr. Slav. n. 33. Schulz. Ill. 1449 fung. Slav. n. 686. — Stromatibus corticalibus tumidulis modice erumpentibus 1 mill. lat.; peritheciis in quaque pustula 1-4, glo-



bulosis in collum breve attenuatis, ostiolo obtuso, 0,1-0,3 mill. cr.; sporulis cylindraceis, curvulis, utrinque obtusis, $16-25 \approx 5$, hyalinis, basidiis filiformibus, sesquilongioribus, fasciculatis suffettis.

Hab. in ramis corticatis Rosæ caninæ pr. Vinkovce. — A

genere Fusicocco sporulis curvulis aliquid recedit.

5. Fusicoccum viridulum (Bon.) Sacc. Polythecium viridulum Bon. 1450 Bot. Zeit. 1863, p. 203. — Stromatibus e loculis cylindraceis subverticalibus compositis, rotundis ovoideisve; sporulis fusiformibus, curvulis, utrinque obtusiusculis, hyalino-viridulis; basidiis ramulosis, brevibus.

Hab. in ramis subvivis Ribis rubri in Guestphalia.

6. Fusicoccum hacillare Sacc. et Penz. Sacc. Mich. II. pag. 627. — 1451 Stromatibus gregariis, e basi suboblongis, conicis, innatis, tumidulis, 3/4-1 mill. lat., nigris, intus griseis, spurie plurilocularibus disco minuto albo-furfuraceo; sporulis tereti-bacillaribus, subrectis, 14-15 = 2, utrinque obtusis, hyalinis; basidiis cylindraceis brevibus e basi prolifera, filamentis reticulato-intricatis hyalinis contexta, oriundis. — Var. dolosa: stromatibus e situ superficiali disco albo carentibus, hinc habitu a typo diversissimis; ceteris iisdem.

Hab. in cortice interiore Pinorum, Le Sapey (Isère) Galliæ (THERRY).

7. Fusicoccum Pini (Pr.) Sacc. Næmaspora Pini Preuss F. Hoyersw. 1452 n. 148. — Stromatibus minutis, gregariis; peritheciis compositis, corneis sublentiformibus, nigris; nucleo pulposo caudido; cirro guttuliformi; sporulis oblongis basi attenuato-acuminatis, albis; basidiis continuis.

Hab. in cortice Pini leviore, Hoyerswerda.

8. Fusicoccum pithyum Sace. et Penz. Sace. Mich. II. p. 626. — Stro- 1453 matibus innato-subsuperficialibus, gregariis, pulvinatis, atris, ½-1 mill. diam., vertice verruculosis, denique collapsis, intus subfarctis, griseis, spurie plurilocellatis; sporulis fusoideis, curvulis, utrinque acutiusculis, 14-15 ≈ 1,5-2,5, hyalinis; basidiis fasciculatis, acicularibus, sporulas subæquantibus.

Hab. in cortice emortuo relaxato Pinorum, Le Sapey (Isère) Galliæ (Therry).

Fusicoccum quercinum Sacc. Mich. II. p. 345. Cytispora querci- 1454
na Sacc. Mich. I. p. 261, non West. Spermog. Diaporthes leiphæmæ (Fr.) Sacc. — Stromatibus transverse oblongis, innato-erumpentibus, obsolete plurilocularibus, intus sordide roseis; sporulis



cylindraceo-fusoideis, $15-16 \approx 3-3.5$, lenissime curvulis, obsolete 2-guttulatis, v. plasmate bipartito, utrinque acutiusculis, hyalinis; basidiis filiformibus paulo brevioribus.

Hab. in cortice quercino, Selva in Italia boreali.

10. Fusicoccum Hapalocystis Sacc. Calosporæ Hapolocystis pycni- 1455 dium Fuck. Symb. p. 191. — Stromatibus..... sporulis in sterigmatibus filiformibus acrogenis, ovato-oblongis, basin versus attenuatis, continuis, obscure triguttulatis, dilute flavis, 28 = 8.

Hab. in ramis emortuis Platani in Rhenogovia.

11. Fusicoccum eumorphum Sacc. Mich. II. p. 99. — Stromatibus in- 1456 nato-erumpentibus, conicis, obtusiusculis, $^{3}/_{4}$ mill. diam., corticolis, carbonaceo-coriaceis, nigris, 2-4-locellatis; sporulis fusoideis, utrinque acutis, sæpius inæquilateralibus, $30-32 \approx 3^{1}/_{2}-4$, nubilosis, hyalinis.

Hab. in cortice Ulmi (?) pr. Rouen Gallie (Letendre).

12. Fusicoccum glœosporioides Sacc. et Roum. Reliq. Lib. IV. n. 97. 1457 — Stromatibus depresso-conicis, subcutaneis, dein erumpentibus atris, intus ceracels pallidis, spurie locellatis; sporulis oblongo-fusoideis, rectis, hyalinis, 8-10 ≈ 2,5; basidiis non visis.

Hab. in rámis corticatis Betulæ (?) in Arduennis.

13. Fusicoccum leucostomum Sacc. Diaporthes Spinæ spermog. Fuck. 1458 Symb. pag. 210. — Stromatibus sparsis seriatisve, tectis, demum erumpentibus, atris, majusculis, late perforatis, ostiolo albicante, plurilocularibus, loculis globosis, griseis; sporulis cylindraceis, rectis, utrinque uniguttulatis, hyalinis, $14 \approx 4$.

Hab. in ramis siccis Salicis auritæ in Rhenogovia.

14. Fusicoccum Lesourdeanum Sacc. et Roum. Reliq. Lib. IV. p. 95. t. 1459 43, f. 22. — Stromatibus subcutaneis vix erumpentibus, conicis, griseo-atris, intus varie et spurie locellatis; sporulis fusoideis, utrinque obtusiusculis, 30 ≈ 8, hyalinis, rectis; basidiis non visis.

Hab. in ramis corticatis Coryli (ut videtur) in Arduennis.

15. Fusicoccum cinctum Sacc. et Roum. Reliq. Lib. IV. n. 94, t. 43, 1460 f. 23. — Stromatibus pulvinatis, sparsis v. laxe gregariis subcutaneis, solo disco ovali plano erumpente, atro-olivaceis, zona olivacea subcutanea cinctis, intus spurie locellatis; sporulis oblongoteretibus deorsum tenuatis, 14-18 ≈ 4, hyalinis, eguttatis; basidiis bacillaribus dimidio brevioribus.

Hab. in ramis corticatis Castaneæ in Arduennis.

Fusicoccum castaneum Sacc. Cytispora castanea Sacc. Mich. I. 1461
 p. 519. — Stromatibus pulvinatis erumpentibus, rufescentibus, in-

tus varie locellatis, pallidioribus; sporulis fusoideis, rectis, 6,5-8 $\approx 2-2.5$, raro longioribus, nempe $10-12\approx 2-2.5$, sæpius biguttulatis, hyalinis; basidiis fasciculatis acicularibus, 7-10 = 1.5, hyalinis.

Hab. in ramis corticatis emortuis Castaneze vescze in Italia, Gallia, Germania. - Status spermogonicus Liaporthes castanew (Tul.) Sacc.

17. Fusicoccum guttulatum Sacc. et Roum. Relig. Lib. IV. n. 93, t. 1462 43, f. 24. — Acervulis subcutaneis, vix erumpentibus, pulvinatis intus plurilocellatis atro-olivaceis; sporulis tereti-fusoideis, utrinque rotundatis, 14-16 = 2,5, hyalinis, 4-guttulatis, rectis; basidiis filiformibus sporulà dimidio brevioribus.

Hab. in ramis corticatis Fagi in Arduennis (LIBERT).

18. Fusicoccum galericulatum (Tul.) Sacc. Diaporthes galericulate 1463 st. sperm. Syll. I. p. 629. — Stromatibus tuberculatis, erumpentibus. fuscis, intus pallidis multilocellatis; sporulis fusoideis $6-10 \approx 3,5-4$, hyalinis.

Hab. in ramis corticatis Fagi silvatica prope Versailles Galliæ.

19. Fusicoccum Carpini Sacc. Diaporthes Carpini st. sperm. Syll. I. 1464 608. — Stromatibus demum erumpentibus 1-2 mill, latis, poro centrali plerumque irregulariter fisso apertis, intus cellulis globosis, dense stipatis formatis; sporulis lanceolato-fusiformibus, biguttulatis (uniseptatis?), hyalinis, $12 \approx 3-4$.

Hab. in ramis siccis Carpini Betuli in Suecia, Germania, Gallia, Belgio et Italia.

20. Fusicoccum Kunzeanum Sacc. Syll. I. p. 607. Reliq. Lib. IV. t. 44, 1465 f. 25. Diaporthes Kunzeance st. sperm. — Stromatibus subcuticularibus, conoideo-depressis, medio pertusis, e fusione cellularum quasi 1-locularibus, pulpa lutescenti fœtis; sporulis oblongo-fusoideis, rectis curvulisve, 10-11 = 3, 4-guttulatis (tandem 1-septatis?), sterigmatibus brevissimis fasciculatis, fultis.

Hab. in ramulis Carpini Betuli, Selva, Treviso Ital. bor. et in Arduennis.

21. Fusicoccum Farlowianum Sacc. et Roum. Reliq. Lib. IV. n. 98, 1466 t. 43, f. 21. - Stromatibus majusculis, dein superficialibus, irregulariter globosis, usque 2 mill. diam., nigris, intus pluri-locellatis pallidioribus; sporulis fusoideis, utrinque acutis, 12-14 = 2,3-3, hyalinis; basidiis bacillaribus fasciculatis sub-æquilongis.

Hab. in ligno putri, jam decorticato, in Arduennis.

22. Fusicoccum coronatum Karst. Hedw. 1884. p. 21. - Stromati- 1467

bus hypo-raro epiphyllis, sparsis vel confertis, sed epidermidem nigrificatam fissam erumpentibus, depresso-subconoideis, albido-furfuraceis, 5-8 ν . latis; sporulis cylindraceis, utrinque rotundatis, $12-14\approx 2-2.5$ ν .

Hab. in foliis putrescentibus Betulæ albæ ad Mustiala in Fennia.

- CYTOSPORELLA Sacc. Mich. II. p. 100. (Etym. a Cytospora cui analogum genus). Stroma valseum v. verrucosum ianato-erumpens v. subsuperficiale, subcoriaceum, atrum, intus pallidius, plus minusve distincte pluriloculare. Sporulæ globosæ v. ovoideæ, continuæ, subhyalinæ, plerumque minutissimæ. Est quasi Cytosporu sporulis globoso-ovoideis.
- l. Cytosporelia sycina Sacc. Mich. II. p. 100. Stromatibus innato- 1468 erumpentibus, corticolis, conicis, $\frac{1}{2}$ mill. diam., intus plurilocellatis, locellis globulosis, nucleo subcarneo; sporulis ovoideis, minutissimis, $2 \approx 1$, hyalinis, basidiis bacillaribus, $15 \approx 1^{1}/_{2}$, suffultis.

Hab. in ramis Fici Caricæ in Gallia merid. (ROUMEGUERE).

2. Cytosporella Scheidweileri (West.) Sacc. C. Scheidweileri West. 1469 Exs. n. 1134 Lamb. Fl. myc. Belg. vol. III. — Pustulis irregularibus, subseriatis, epidermidem bullatim inflantibus, denique lacerantibus; peritheciis globuloso-oblongis; ostiolis brevibus, crassis, inæqualibus, discum colliculosum formantibus; cirris rubro-aurantiacis; sporulis ovoideis, obtusis, angustis.

Hab. in trunco emortuo Rhois, Courtrai Belgii.

3. Cytosporella Æsculi (West.) Sacc. C. Æsculi West. Exs. n. 721. 1470

— Peritheciis atris, minutis, stromate griseo immersis pustulasque
1-4 mill. diam. formantibus, irregulariter globosis, epidermide lacerata cinctis, discis pluribus minutis circa centralem albo-pruinosum dispositis; sporulis perexiguis, ovoideis, copiosissimis; cirro incarnato, dein fuscescente.

Hab. in trunco emortuo Æsculi, Courtral Belgii.

4. Cytosporella pisiformis (Fr.) Sacc. Cytispora pisiformis Fr. in 1471 Duby Bot. Gall. II. p. 725. — Peritheciis numerosissimis, atris, difformibus irregulariter coacervatis, in conceptaculo erumpente atrofusco globoso inclusis; disco minuto, subconcolore, plano; ostiolo centrali nigro; sporulis numerosissimis, in cirrum flavidum protrusis, globulosis, flavidis, 3-4 μ. diam.

Hab. in ramulis quercinis in mont. Vogesis (Mougeor). — Spermogonium Melanopis mirabilis, teste Fuck.

5. Cytosporella sphærosperma (West.) Sacc. Cytispora sphærosper- 1472 ma West. Bull. Soc. Belg. II. t. XV. n. 7. — Stromate subrotundo, prominente, rugoso, majusculo, epidermide lacerata cincto; peritheciis nigris, minutis, compressis, numerosis, stromate immersis; ostiolis papillatis; cirro albido; sporulis globulosis, hyalinis.

Hab. in radicibus avulsis Quercus emortum, Mons Belgii (R.

P. Dumont).

6. Cytosporella mendax Sacc. et Roum. Reliq. Lib. IV. n. 109. — $_{1473}$ Stromatibus superficialibus, epixylis, globoso-inæqualibus, usque $^{3}/_{4}$ mill. diam., atris, intus plurilocellatis; sporulis globoso-ellipsoideis, $4-5\approx3,5-4$, hyalinis; basidiis minutis papilliformibus.

Hab. ad ligna quercina in Arduennis (LIBERT).

CYTOSPORA Ehrenb. Syl. Berol. p. 28. Cytispora Fr. S. M. II. p. 540. Psecadia Fr. Summa p. 414. (Etym. cytos cavitas, et spora).

— Stromata tecta v. erumpentia, conica v. verruciformia, intus loculis difformibus, modo obsoletis, sæpe distincte circinantibus fæta. Sporulæ copiosissimæ, continuæ, subhyalinæ, oblongo-allantoideæ, basidiis variis suffultæ, madore in cirros varios expulsæ. Spermogonia Allantosporarum frequentissima.

— Nonnullæ species, sporulis ignotis, forte ad Cytosporellam v. Dumortieram referri possent.

I. Arboricolæ (ramicolæ).

1. Cytospora clypeata Sacc. Valsellæ clypealæ st. sperm. Fuck. 1474 Symb. App. I. p. 31. — Stromatibus multicellularibus, deplanatis, poro albo; sporulis allantoideis, $6 \approx 1$, curvatis, hyalinis.

Hab. in ramis siccis corticatis Rubi fruticosi prope Œ-

strich Rhenogoviæ.

2. Cytospora Rubi Schw. Syn. Am, bor. n. 2161. — Tuberculis in 1475 macula aggregatis longe lateque effusa lactea, immersis, nigris, regulariter ovatis, applanatis, subcellularibus, intus albidis, elevatis in collum centrale, ex quo protruduntur cirri crassi difformes, decumbentes ex albo lutescentes.

Hab. in junioribus ramis Rubi Idæi hortorum, frigore enecati, Bethlehem Amer. bor.

3. Cytospora Hendersonii Berk. et Br. Outl. Fung. p. 322, Brit. Fungi 1476 p. 436. — Pustulis minutis, sparsis; peritheciis simplicibus (?) tenuibus, subinde margine lobatis, gelatina albida; sporulis oblongis brevibus, curvulis. hyalinis, majusculis, inordinate exsilientibus.

Hab. in ramulis Rosæ arvensis in Britannia. - Teste Berk., in genere anceps et Sphæropsidi quoque proxima.

4. Cytospora rhodophila Sacc. Valsæ rhodophilæ st. sperm. Nits. 1477 Pyr. Germ. p. 209. — Stromatibus minutis, conico-truncatis, poro centrali, singulo apertis spurie paucilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5-7 = 1, in sterigmatibus tenuissimis, breviusculis, subsimplicibus acrogenis.

Hab. in ramis siccis Rosæ caninæ in Germania et Britannia.

5. Cytospora Rosarum Grev. in Bail. Syst. d. Pilz. p. 81, t. 14, - 1478 Stromatibus gregariis, subcutaneo-erumpentibus, conicis, intus sinuose et obsolete plurilocellatis, cinereo-fuscis, epidermide subinde rubefacta cinctis; sporulis allantoideis, 5-6 = 1,5, hyalinis.

Hab. in ramulis Rosæ caninæ in Gallia, Britannia, Italia, Germania. - Spermogonium Valsce Rosarum.

6. Cytospora Massariana Sacc. Valsee Massariance stat. spermog. 1479 Nits. Pvr. Germ. p. 221. - Stromatibus loculis minutissimis, densissime ac radiatim stipatis farctis, foramine unico, centrali in disco albido, pulverulento, instructis; sporulis cylindricis, subrectis, 6-7 = 1; sterigmatibus brevibus, subsimplicibus.

Hab. in ramis Sorbi Aucupariæ in Gallia, Germania, Italia. 1480 7. Cytospora microspora (Corda) Rabenh. Deutsch. Crypt. Fl. p. 147. Næmaspora microspora Corda Ic. III. p. 26, fig. 69. - Pustulis hemisphæricis, subcutaneis, albidis v. nigrescentibus, stromate partito atro, centro subcolumelliformi et subradiato; pseudostromate 'aurantiaco, loculis numerosis polymorphis v. flexuosis albidis, ostiolo centrali atro communi: cirro albo: sporulis subaliantoideis curvulis, $6-7 \approx 1-1.3$; basidiis bacillaribus sporula triplo longioribus.

Hab. in ramis Sorbi, Piri, Cratægi, Quercus in Gallia, Germania, Suecia,

8. Cytospora rubescens Fr. S. M. II. p. 542. — Stromate subcuta- 1481 neo depresso; disco erumpente fuligineo; cirris rubescentibus; loculis immersis circinantibus; sporulis allantoideis, 4 µ. longis, aliisque (basidiis?) filiformibus 35-45 µ. longis.

Hab. ad corticem Sorbi, Pruni, Piri in Gallia, Suecia, Germania, Italia, America boreali. — Eutypellæ Sorbi spermogonium. Cyt. rubescens (Hedw. 1866, p. 73) sporulis gaudet 8-10 y. longis, an diversa? - Conceptaculum omnino ut in Sphæriis Incusis. Loculi circa perithecium centrale circinantes numerosissimi, primo obsoleto, dein perithecia referunt, sed semper astomi, oblongodifformes.

9. Cytospora capitata Sacc. et Schulz. Micr. Slav. n. 55. Schulz. Ill. 1482 Fung. Slav. n. 811. — Conceptaculis sparsis, subcutaneis, 1-2 mill. diam., discoideis loculis variis sinuosis, subinde incompletis, intus · pallidis; ostiolis emergentibus, in globulum atrum coalescentibus: sporulis oblongo-botuliformibus, 5-6 u. longis, hyalinis: basidiis fasciculatis, bacillaribus, breviusculis.

Hab. in ramis emortuis Piri Mali pr. Vinkovce.

10. Cytospora leucostoma (Pers.) Sacc. Mich. II. p. 264. Spharia 1483 leucostoma Pers. p. p. - Stromate lenticulari, nigricante, subcutanco-erumpente, disco plano, niveo emergente; cirris rubescentibus; sporulis botuliformibus, 5 = 1, hyalinis, basidiis filiformibus. 12 = 1, suffultis.

Hab. in ramis corticatis Pruni Padi, P. Cerasi, P. domesticæ in Germania, Gallia, Italia, Sibiria.

11. Cytospora asterophora Sacc. Mich. II. p. 265. — Conceptaculis 1484 conico-depressis, minutis, innato-erumpentibus, 4-5-locularibus, nucleis pallidis; sporulis allantoideis 31/2-4 = I, hyalinis, basidiis obelavulatis, 20 = 2, fasciculatis, inque glomerulos eximie stellatos diu consistentibus suffultis.

Hab. in ramis corticatis Pruni domesticæ. Padova Italiæ borealis. — forma Deutziæ scabræ: sporulis 3 = 1, basidiis verticillato-ramosis, 25-30 = 1. — In ejusdem ramis, Padova.

12. Cytospora floccosa Wallr. Fl. crypt. n. 3636. - Peritheciis ni- 1485 gris simplicibus, epidermide scissa cinctis, vertice truncato albo ocellato, cirrum candidum crassum guttatum, ex sporulis solutis (ovatis?) conflatum eructantibus.

Ilab. ad ramos Pruni domesticæ in Germania.

13. Cytospora microstoma Sacc. Valsæ microstomæ st. spermog. 1486 Nits. Pyr. Germ. p. 193. - Stromatibus e basi rotundato-ovali convexis, rarius conicis, poro in disculo unico, raro pluribus instructis, multilocularibus, loculis radiatim ordinatis; sporulis cylindricis, curvulis, pro ratione crassiusculis, 5-6 = 1,5; sterigmatibus breviusculis, 28 p. circ. longis, ramosis, crassiusculis.

Hab. in ramis crassioribus Pruni spinosæ et domesticæ in Anglia, Gallia, Germania, Italia, Suecia, frequens.

14. Cytospora cincta Sacc. Valsæ cinctæ st. sperm. Nits. Pyr. germ. 1487 p. 228. — Stromatibus pustulatis, poro unico, centrali, raro pluribus in disco sordide albido apertis, nunc subsimplicibus, nunc contra pauci- v. multilocularibus, loculis radiatim ordinatis; sporulis

cylindricis, curvulis, magnitudine variis, plerumque 6-8-rarius 4- $9 \approx 1.5-2$, in cirros rubescentes tandem protrusis.

Hab. in ramis Pruni spinosæ, Armeniacæ, Persicæ in Suecia, Germania, Gallia.

15. Cytospora cerasicola Sace. Valsariæ rubricosæ spermog. Fuck. 1488 Symb. myc. p. 227. — Stromatibus sub corticis epidermide nidulantibus, maximis, cytosporoideis, plurilocularibus, conceptaculis depresso-globosis, extus atris, basi albicantibus, villosis, sæpe confluentibus, demum per corticem fissam valde intumescentibus; sporulis minutissimis, cylindraceis, subcurvatis, 3 = 1, hyalinis.

Hab. in cortice Cerasi avium, rarius, in Rhenogovia.

16. Cytospora leucophthalma B. et C. North Am. Fungi n. 462, — 1489 Pustelis minutis, apice niveo, ostiolo communi, atro percurso; peritheciis in stromate nigro conditis, globoso-ellipsoideis; sporulis minutissimis curvulis.

Hab. in cortice Cerasi caroliniensis in Carolina inf., New Jersey Am. bor. Exemplaria ex New Jersey (C. nicosa B. et C.) sporulis pollent paulo longioribus, cetera eadem.

17. Cytospora anceps Sacc. Mich. II. p. 344. — Stromatibus grega- $_{1490}$ riis subcutaneo-prominulis, vix erumpentibus, globulosis, intus uni- v. paucilocularibus, olivaceis, $_{1/2}$ mill. diam.; sporulis allantoideis, $_{6-10} \approx 1$, curvulis, hyalinis.

Hab. in ramis corticatis Cerasi (an potius Fagi?) in Gallia merid. — Ob habitum forte Fenestellæ spermogonium.

Cytospora globifera Fr. S. M. II. p. 546. — Tuberculo difformi, 1491 sublobato, stramineo, nigro-limitato; gelatina erumpente, globosa, flavo-fusca.

Hab. in cortice Spirææ opulifoliæ in Suecia. — Eximie distincta; cellulæ obsoletæ, in tuberculum solidiusculum concretæ, cortici omnino innatæ, nec discus erumpens; globulus induratus, persistens.

19. Cytospora Oxyacanthæ Rabenh. Bot. Zeit. 1858, p. \$03, n. 754. 1492
 — Stromatibus 10-12-locellatis; sporulis cylindricis, utrinque rotundato-obtusis, hyalinis, continuis, plus minusve curvatis.

Hab. in ramis Cratægi Oxyacanthæ in Germania.

20. Cytospora Cotoneastri Thum. Pilzfl. Sibir. n. 783. — Peritheciis 1493 gregariis, erumpentibus, conoideis, epidermide pertusis, disco albo et plano, medio ostiolato; basidiis fasciculatis, brevibus, hyalinis, rectis; sporulis cylindricis, subarcuatis, utrinque acutato-rotundatis, continuis, interdum nucleatis, numerosis, achrois, 9-10 = 2,5.

Hab. in ramulis emortuis Cotoneastri melanocarpæ in desertis pr. Minussinsk Sibiriæ. — A Cytospora nivea Fuck. Enum. fung. Nassov. n. 431 differt sporulis duplo majoribus!

21. Cytospora macularis Schulz et Sacc. Micr. Slav. n. 56. Schulz. 1494 Ill. Fung. Slav. n. 261. — Albo-macularis; stromatibus subcutaneo-erumpentibus, depresse verruciformibus, ½-1/3 mill. diam., cinereo-fuscis, intus loculos tortuosos pallidos ferentibus; sporulis allantoideis, hyalinis, 8=3; basidiis fasciculatis 3-4-plo longioribus, bacıllaribus, parce ramulosis.

Hab. in ramis Persica vulgaris pr. Vinkovce. — Macula

albæ corticales, 10-12 mill. lat. vere peculiares!

22. Cytospora Persicæ Schw. Syn. Amer. bor. n. 2156. — Tuber- 1495 culo tecto, demum prorumpente, orbiculari, minuto, sparso, nigro; ore albescente, cirrulo deciduo, albido; intus celluloso-grumoso albescente.

Hab. frequentissima in junioribus ramulis Persicarum, New York, Salem et Bethlehem Amer. bor. (Schweinitz, Sartwell).

23. Cytospora punica Sacc. Mich. I. p. 368. Valsæ punicæ spermog. 1496 Cfr. Syll. I. p. 130. Fung. It. 403. — Peritheciis subcutaneis laxe congregatis, globulosis; ostiolis vix emergentibus cylindraceis perithecio sublongioribus; contextu regulariter parenchymatico fuligineo; sporulis botuliformibus, 5 × 1, hyalinis; basidiis bacillaribus sporula duplo triplove longioribus.

Hab. in ramis corticatis Punicæ Granati, Conegliano Ita-

liæ borealis.

24. Cytospora Australiæ Speg. F. Arg. Pug. I. p. 189. — Perithe- 1497 ciis minutis, 90-110 μ . diam., 3-5 valsiformiter aggregatis, cortici immersis subglobosis, in ostiolum elongatiusculum desinentibus, contextu membranaceo, parenchymatico, olivaceo; ostiolis fasciculatis superficiem corticis attingentibus, non vel vix exsertis, atris, punctiformibus; sporulis allantoideis, curvulis, utrinque obtusiusculis, 4-6 = 1,5-2, hyalinis, sterigmatibus hyalinis, cylindraceis vel subfusiformibus, 15-16 = 1,5, suffultis.

Hab. in ramulis dejectis emortuis Eucalypti Globuli a la

Recoleta in Argentina Amer. austr.

25. Cytospora Vitis Mont. Syll. Crypt. n. 925. Valsæ Vitis st. sperm. 1498
Nits. Pyr. Germ. p. 190. — Stromatibus per corticem superiorem
fibrosum, ductu lineari longitudinaliter parumque emergentibus,
primo albido-pulverulentis, collo centrali, nigro, poro pertuso præditis, multilocularibus, loculis radiatim dispositis irregularibus;

Sphærioideæ, Hyalosporæ, Cytospora.

257

sporulis cylindricis, curvulis, $4-5 \approx 1$, in sterigmatibus simplicibus, longiusculis acrogenis, tandem in cirros pallide luteolos v. succineos protrusis.

Hab. in sarmentis Vitis viniferæ in Germania, Italia, Gallia, Amer. bor. — Cytospora Vitis Fuck. F. Nass. p. 52 eadem species videtur. — Var. macrospora Sacc. et Roum. Reliq. Lib. IV. n. 104; sporulis 10≈1,5. In ejusdem sarmentis in Gallia.

26. Cytospora incerta Thum. Pilz. Weinst. p. 184 C. Vitis Schulz. 1499 — Pseudoperitheciis variis, aut simplicibus aut conjunctis, tenuissimis, parte emersa nigris, plerumque immersis, postremo evanescentibus; hyphis paullulum ramosis; sporulis cylindrico-curvatis, hyalinis, 6 μ. longis.

Hab. in sarmentis emortuis Vitis viniferæ in Slavonia (Schulzer).

27. Cytospora ampelina Sacc. Cryptovalsæ ampelinæ st. sperm. sec. 1500 Nits. — Peritheciis seriatis, in stromate nunc longe lateque effuso, nunc contra brevi, maculiformi, immersis, atris; sporulis copiosis, cylindraceis, utrinque obtusis, rectis, continuis, hyalinis, 16 = 2,5.

Hab. in sarmentis Vitis in Gallia, Italia, Germania.

28. Cytospora rhoina Fr. S. Myc. II. p. 546. — Tuberculo globoso, 1501 solidiusculo, pallido; cirro tenerrimo concolori; sporulis 5 \(\rho_1\). longis.

Hab. in ramis emortuis Rhois in Suecia et Amer. bor. — Sclerotium refert, molle, absque cellulis distinctis. Cirrus admodum rarus et tenuis.

29. Cytospora Buxi Desm. 16 Not. p. 355. — Stromatibus minutis, 1502 sparsis, nigris, ovatis, subconicis epidermide rimose rupta tectis; ostiolo papilliformi; peritheciis 2-4 polymorphis; basidiis tenuibus abbreviatis; sporulis minutissimis, numerosis, ovoideo-oblongis, subacutis, hyalinis, 5-7 μ. diam., 2-guttatis; cirro albido griseo.

Hab. in ramis emortuis Buxi sempervirentis in Gallia.

30. Cytospora sphærocephala (Schw.) Sacc. Lamyella sphærocepha- 1503 la Fr. Summa p. 410. Sphæria sphærocephala Schw. Fr. S. M. II. p. 497. Cfr. Syll. II. p. 425, ubi descriptio.

Hab. in ramis Hydrangeæ in Carolina Amer. bor.

31. Cytospora atra (Bon.) Sacc. Lamyella atra Bon. Abhandl. II. 1504 p. 134, t. II. f. 15. — Stromate parvo, tecto-erumpente, extus atro, intus pallido, distincte plurilocellato, loculis in disco prominulis porisque discretis rotundatis instructis; sporulis oblongo-allantoideis, minutissimis, hyalinis; basidiis ramosis longiusculis.

Hab. in ramis siccis Mori alba et nigra in Guestphalia.

- Præcipue ostiolis discretis dignoscenda. Affinis Cytosp. sphærocephalæ.

32. Cytospora ficicola B. et C. North Am. Fungi n. 461: - Pustu- 1505 lis minutis, epidermide tectis; peritheciis globosis; sporulis oblongis curvulis, 7 \u03bc. longis.

Hab. in ramis Fici in Pensylvania Amer. bor. (MICHENER).

33. Cytospora macilenta Rob. et Desm. XVII. Not. p. 26. - Stro- 1506 matibus minutis, punctiformibus, brunneis vel nigris, numerosis, inordinatis, irregulariter rotundatis, ovatis vel reniformibus. convexis, epidermide tectis; dein rupta cinctis; loculis, 5-7 tenuibus, circinantibus; nucleo pulposo; cirro crasso, abbreviato, albido lutescente; sporulis oblongis, rectis, obtusiusculis, hyalinis, 2-4 guttulatis, $10-15 \approx 2.5$, subopacis.

Hab. in ramis exsiccatis Aceris Negundinis et Corni maris in Gallia et Belgio.

34. Cytospora hyalosperma Fr. S. M. II. p. 545. - Stromate im- 1507 merso obsolete celluloso colloque erumpente conico-convexo nigris: cirro hyalino.

Hab. in cortice Aceris rubri in Carolina super. Amer bor.

- Inter minores, absque disco depresso.

35. Cytospora Pseudoplatani Sacc. Valsæ Pseudoplatani st. spermog. 1508 Nits. Pyr. Germ. p. 205. — Stromatibus minutis, e basi orbiculari conico-truncatis, disculo erumpente, ochraceo, papilla atra, porosa, centrali, minutissima, instructo, multilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5 = 1,5; sterigmatibus simplicibus, tenuissimis, 28 μ. longis.

Hab. in ramis Aceris Pseudoplatani. Cappenberg in Ger-

mania et in Suecia.

36. Cytospora occulta Sacc. Melanconidis occultæ spermog. Fuck. 1509 Symb. p. 190. - Peritheciis sub cortice nidulantibus, connatis, griseis; cirris ex poro communi, tuberculato, nigro expulsis, aureis; sporulis minutissimis, cylindraceis, curvatis, continuis, hyalinis.

Hab. in ramis siccis Alni glutinosæ in Rhenogovia.

37. Cytospora truncata Sacc. Valsce truncatce st. sperm. Cfr. Syll. 1510 - Stromatibus truncatis, medio pulverulentis et subrimosis; sporulis allantoideis, coacervatis, succineis, 3-5 \mu. longis.

Hab. in ramis Alni, Johnsburgh, Warren C., Amer. bor.

38. Cytospora diatrypa Sacc. Valsæ diatrypa st. sperm. Nits. Pyr. 1511 Germ. p. 226. - Stromatibus poro in disco albido singulo, centrali, multo rarius duobus tribusve pertusis, multilocularibus, locu-

lis numerosis, minutissimis, circinatim ordinatis; sporulis cylindricis, curvulis, $6 \approx 2$, tandem in cirros rubentes protrusis; sterigmatibus longiusculis, filiformibus, ramosis.

Hab. in ramis Alni glutinosæ et incanæ in Suecia, Germania, Gallia et Fennia.

39. Cytospora stenopora Sacc. Myc. Ven. n. 751. Valsæ stenoporæ 1512 spermogonium. Cfr. Syll. I. p. 129. — Stromatibus gregariis, subcutaneo-erumpentibus, conicis, griseis, obsolete plurilocellatis, discominuto erumpente; sporulis allantoideis, exiguis, curvulis, 4-5 \upsup 0,5, hyalinis.

Hab. in ramis Alni glutinosæ in Italia et Gallia, socia Valsa.

40. Cytospora umbrina (Bon.) Sacc. Psecadia umbrina Bonord. Ab. 1513 handl. p. 131, t. II. f. 6. — Stromate hemisphærico obtuso, umbrino demum nigro, subcutaneo, prominulo vix erumpente, intus lobato-l-loculari, pallidiore; sporulis allantoideis, minimis, hyalinis; basidiis ramulosis filiformibus.

Hab. in ramis Alni in Guestphalia. — «An Dendrophoma?».

41. Cytospora horrida Sacc. Valsæ horridæ stat. spermog. Nits. Pyr. 1514
Germ. p. 176. — Stromatibus e basi ovata convexis, depressis, subito in disculum minutum, ellipticum, planum, peridermium tandem transversim erumpentem idque vix superantem attenuatis, multilocularibus, loculis numerosissimis, sine ordine stipatis, extus castaneis, intus viridulis, poro in disculo minuto, albido-cinereo unico centrali, rarius pluribus perforatis; sporulis cylindricis, curvulis, hyalinis, in sterigmatibus dichotome ramosis, 20-48 µ. lon-

Hab. in ramis dejectis Betulæ albæ prope Münster Germaniæ.

gis acrogenis.

42. Cytospora betulina Ehrenberg Sylv. Ber. p. 28. — Peritheciis depressis atris, disco erumpente, cirro tenui rubello.

Hab. in ramis Betulæ albæ et verrucosæ in Germania, Belgio et Sibiria. — Cellulæ in cortice interiore obvallatæ absque stromate et conceptaculo. Discus erumpens, grumosus, cinerescens, planus.

43. Cytospora stellulata Sacc. Valsæ stellulatæ spermog. Fuck. Symb. 1516 p. 196. — Stromatibus multicellularibus; gelatina globuliformiter vel irregulariter expulsa, sordida; sporulis majusculis, cylindraceis, curvatis, 16 ≈ 3-4.

Hab. in ramulis emortuis Ulmi campestris in Rhenogovia.

44. Cytospora carbonacea Fr. S. M. II. p. 544. — Stromate proprio 1517 tenui, cellulis atris discoque albido obsoletis; ostiolis prominen. tibus atris.

Hab. in ramis Ulmi in Suecia et Amer. bor. - Species minus cognita, licet vulgatissima; conceptaculo proprio instructa: pustulæ minutæ, non prominentes, in cortice interiore innatæ, stromate proprio carbonaceo, in cellulas obscuras diviso, sed adest columna centralis admodum distincta; cirrus non visus.

45. Cytospora nivea (Hoffm.) Sacc. Mich. II. p. 264, Sphæria nivea 1518 Hoffm. p. p. - Stromatibus gregariis, subcutaneo-erumpentibus. conico-disciformibus, atris, intus minute plurilocellatis, disco erumpente subcirculari niveo; poro centrali pertuso; cirro purpurascenti; sporulis botuliformibus, hyalinis, $6-7 \approx 1,5-2$.

Hab. in ramis corticatis Populi nigræ, angulatæ, tremulæ in Italia, Gallia, Germania, Sibiria, Britannia. - Spermogonium Valsa (Leucostomæ) nivea.

46. Cytospora chrysosperma (Pers.) Fr. S. M. II. p. 542. Næmaspo- 1519 ra chrysosperma et populina Pers. Syn. p. 108-109. - Stromatibus subcutaneis, conico-applanatis, majusculis, olivaceo-cinereis, loculis immersis, subinde irregularibus, disco erumpente nigrocinereo; sporulis allantoideis, hyalinis, 4 = 1; cirris aureis majusculis copiosis.

Hab. ad ramos corticatos Populi albæ, græcæ, italicæ, nigræ in Suecia, Germania, Gallia, Italia, Austria, America boreali. - Valsæ sordidæ spermogonium. - Conceptaculum orbiculare, conicum, basi convexa scutellari in cortice interiore innata et superne epidermide adnata incusum, quare hac rupta laceratur et denudatur huic inclusum stroma olivaceo-cinerescens, quod superne erumpit formatque discum exiguum, sordidum, rugosum, difformi-subrotundum, ostiolo centrali nigro, per quod protruditur gelatina cirrosa: loculi difficile discernuntur, oblongi, atri, humectati gelatina flava turgent, ostiolis in collum centrale junctis.

47. Cytospora salicella Sacc. Valsellie Salicis spermog. Fuck. Symb. 1520 myc. p. 203. — Stromatibus multicellularibus; cirris pallidis, angustissimis; sporulis cylindraceis, curvatis, $2.7 \approx 0.5$.

Hab. in ramulis corticatis Salicis auritæ in Rhenogovia.

48. Cytospora dolosa Sacc. Valsa dolosa st. sperm. Nits. Pyr. Germ. 1521 p. 200. - Stromatibus majusculis, protuberantibus, sæpe verruciformibus, intas viridulis, multilocularibus, loculis numerosissimis, sine ordine denseque stipatis; collo poroque singulo v. pluri-

bus aperto; sporulis cylindricis, curvulis, 6-7 = 1,5; sterigmatibus 32-40 u. longis, hinc inde ramosis.

Hab. in ramis Salicis Capreæ prope Münster Germaniæ.

49. Cytospora translucens Sacc. Valse translucentis st. sperm. Nits. 1522 Pvr. Germ. p. 227. — Stromatibus perexiguis in disculo albido, fusco-marginato, poro unico centrali, rarius duobus tribusve apertis, paucilocularibus, loculis radiatim ordinatis, immo subsimplicibus; sporulis cylindricis, curvulis, 4-5 = 1; sterigmatibus filiformibus, tenuissimis, 4 v. longis, immo longioribus,

Hab. in ramulis Salicis babylonica, rarius S. fragilis, albæ, pentandræ, purpureæ etc. in Germania, Fennia, Ita-

lia et America boreali.

50. Cvtospora Schweinitzii Sacc. Valsav Schweinitzii Nits. Pyr. Germ. 1523 p. 191. - Stromatibus e basi orbiculari, truncato-conicis, minutis, nonnihil protuberantibus, peridermio erumpentibus ejusque laciniis fissis cinctis v. peridermio, facile solubili, dejecto, in corticis interioris superficie fuscescenti liberis, in collum crassum, poro latiusculo pertusum attenuatis, spurie multilocularibus, immo simplicibus, loculis, ubi adsunt, pluribus, majusculis, radiatim dispositis; sporulis cylindricis, curvulis, 4-5 = 1; sterigmatibus simplicibus v. basi ramosis, 28 y. longis.

Hab. in ramis corticatis Salicis Capreme et fragilis in Germania et Italia.

51. Cytospora macrobasis Sacc. Mich. II. pag. 344. — Stromatibus 1524 erumpentibus, majusculis, globuloso-aggregatis, vertice sæpe obtuse papillatis, astomis, nigris; sporulis botuliformibus, vix curvulis, 7-8 = 2, 2-guttulatis, hyalinis, basidiis iterato-furcatis, bacillaribus, $60 \approx 2$, hyalinis suffultis.

Hab. in ramis corticatis salicinis pr. Rouen Galliæ (Leten-DRE). — Basidiis prælongis mox distinguenda species.

52. Cytospora fertilis Sacc. Valselle fertilis st. sperm. Nits. Pyr. 1525 Germ. p. 238. — Stromatibus minutis, dense gregariis, pustulatis, poro unico in disco albido centrali apertis, multilocularibus, loculis radiatim ordinatis; sporulis cylindricis, curvulis, $5-7 \approx 2$, tandem in cirros rubentes propulsis; sterigmatibus breviusculis 20 p. longis, parce ramosis, crassiusculis.

Hab. in ramis et trunco Salicis Capreæ prope Münster Germania.

53. Cytospora Salicis (Corda) Rabenh. Deutsch. Flora, Fung. n. 1340. 1526 Namaspora Salicis Corda Ic. IV. fig. 20, p. 80. — Stromatibus

gregariis, tectis, dein erumpentibus, conicis; disco cinereo-fusco emergente; peritheciis radiantibus v. labyrintheis, confluentibus, pallidis v. griseis; cirro albido; sporulis botuliformibus, curvulis, 5-6 = 1, basidiis bacillaribus sporulà triplo longioribus.

Hab. in ramulis emortuis Salicis vitellinæ, albæ, fragilis, purpureæ in Italia, Germania, Gallia, Austria, America australi. - Forma Betulæ carpathicæ Corda l. c.: sporulis 8-10 µ. longis. In Bohemia. - Valsæ salicinæ spermogonium.

54. Cytospora germanica Sacc. Valsæ germanicæ st. sperm. Nits. 1527 Pyr. Germ. p. 215. - Stromatibus conico-truncatis, disco ex albido-cinereo et papilla minutissima, atra, centrali, pertusa instructis, multilocularibus, loculis radiatim disposițis; sporulis cylindricis, curvulis, 5 = 1.5; sterigmatibus filiformibus, tenuissimis, subsimplicibus, circiter 20-24 \mu. longis.

Hab. in ramis putrescentibus Salicis triandræ, pentandræ, fragilis, nec non Betulæ et Populi tremulæ in Germania et Fennia.

55. Cytospora aurora Mont. et Fr. Notice etc., in Ann. 2, I. p. 347, 1528 - Immersa; conceptaculo nullo; cellulis difformibus, circinantibus, atris stromate pulveraceo immersis; ostiolo centrali, nigro, cuticulam perforante; gelatina madefacta rosea, sicca crocea, primo globuliformi, demum late effusa; sporulis rectis oblongis.

Hab. in ramis salicinis in Gallia et Italia.

56. Cytospora atro-nitens Chev. Fl. Par. I. p. 431. -- Stromate pro- 1529 minente, conico, disco albido plano; peritheciis circinantibus, nigris, demum confluentibus; cirro albido.

Hab. in ramulis emortuis salicinis in Gallia et Belgio.

57. Cytospora Capreæ Fuck. Symb. pag. 199, Valsæ Schweinitzii 1530 Sperm. Nits. Pyr. 191. — Stromatibus gregariis subcutaneo-erumpentibus, in collum crassum poro pertusum attenuatis, radiatim spurie plurilocellatis; sporulis allantoideis curvulis, 4-5 = 1, hyalinis.

Hab. in ramis Salicis Capreæ etc. in Germania et Algeria.

58. Cytospora xanthosperma Fr. S. Myc. II. p. 543. — Concepta- 1531 culo nullo; cellulis circa colunfuam centralem circinantibus; disco obtecto: cirro rudi aureo.

Hab. in ramis Salicis in Kamtschatka (Wormskield), in virgultis Salicis capensis in Somerset-East Africæ austr. (Mac-Owan). - Conceptaculum nullum neque pustulæ supra corticem prominent; cellulæ atræ, cortici interiori innatæ; discus convexus. levis, aeneo-fuscus, epidermide tectus, nec epidermide lacerata

erumpens, centro poro subtili pertusus, dein vero elabens, foveolam profunde umbilicatam relinquens, disco minimo albo, ostiolo atro depresso.

59. Cytospora fugax (Bull.) Fr. Syst. Myc. II. pag. 542, Variola-1532 ria fugax Bull. — Stromate obsoleto, cellulis atris circinantibus, disco plano fuliginoso, cirris tenellis pallidis.

Hab. in ramulis corticatis salicinis et coryleis in Germania, Suecia, Sibiria asiatica. — Pustulæ prominentes, lentiformes, cum epidermide concretæ, subincusæ; cellulis circa columnam centralem circinantibus, gelatina copiosa tumentibus; circo tenui albido-griseo subhyalino dignoscitur.

60. Cytospora incarnata Fr. S. M. II. p. 542. — Loculis subglobosis, 1533 atris, in stromate lentiformi proprio nidulantibus; cirris filiformibus incarnato-roseis; sporulis cylindricis, curvulis, hyalinis, obtusis, 12 μ. longis.

Hab. in ramis exsiccatis Carpini et Salicis in Suecia, Germania. — Stroma orbiculatum, depressum, atrum, epidermide pustulato-elevata tectum, collo brevi erumpente terminatum. Cellulæ minutæ, ægre discernuntur, circa centralem circinantes.

61. Cytospora decipiens Sacc. Anthostomatis decipientis stat. sperm. 1534 Nits. Pyr. Germ. p. 302. — Stromatibus sub corticis strato extimo natis, plerumque oblongis, margine repandis, seriatim sæpe ordinatis, multilocularibus, auratis, loculis innumeris, ordine haud perspicuo dispositis; sporulis lineari-cylindricis, tenuissimis, curvatis, in cirros v. glebas rubras v. aureas tandem eructatis.

Hab. in truncis decorticatis corticatisque Carpini, rarius in Acere, Betula, Quercu, Fago in Germania, Gallia, Italia, Britannia et Belgio.

62. Cytospora Fuckelii Sacc. Valsæ Fuckelii spermog. Nits. Pyr. 1535 p. 192 et Fuck. Symb. p. 199. — Stromatibus plurilocularibus, obtuse conicis, poro communi, subrostrato, perforato, in disco convexo, sordido, loculis radiatim ordinatis, inæqualibus, nucleo griseo; cirris?; sporulis cylindraceis, curvatis, simplicibus, 6 ≈ 1,5.

Hab. in ramis Coryli Avellanæ in Italia et Germania.

63. Cytospora affinis Sacc. Valsæ affinis sperm. Fuck. Symb. p. 199. 1536
 — Peritheciis circinantibus; sporulis cylindraceis, curvatis, 4 ≈ 1, in sterigmatum ramosorum apicibus insertis.

Hab. in ramis tenuioribus Coryli Avellanæ rarius in Rhenogovia.

64. Cytospora ocellata Fuck. F. Nassov. n. 432. — Stromate plano- 1537

conico, nigro, disco niveo, hemisphærico marginato, ostiolo pertuso; peritheciis ovoideis subgelatinosis; cirro tereti curvato, atro-pur-pureo; sporulis botuliformibus, $5 \approx 1$, in basidiis acicularibus verticillatis, acrogenis, hyalinis, coacervatis, carneolis.

Hab. in cortice Coryli Avellanæ in Nassovia, et Ribis rubri in Gallia.

65. Cytospora melasperma Fr. S. M. II. p. 545. — Peritheciis de- 1538 pressis atris; disco erumpente albido; cirro rudi atro.

Hab. in ramis corvleis rarius in Germania et Suecia.

66. Cytospora guttifera (DC.) Fr. S. M. II. p. 545, Sphwria gutti- 1539 fera DC. Fl. Fr. VI. p. 136, Psecadia guttifera Fr. Summa, Bonord. Abh. I. p. 47. — Tuberculo immerso, celluloso, nigro, mox attenuato, in collum erumpens, conicum, obtusum; gelatina globosa albida; sporulis oblongo-cylindraceis.

Hab. in ramis Coryli et Quercus in Gallia, Tiliæ in Germania. — Cellulæ atræ sistunt tuberculum atrum cortici immersum, cui imposita est columna epidermidem perforans. Globulus

demum nigrescens.

67. Cytospora intermedia Sacc. Valsæ intermediæ stat. sperm. Nits. 1540 Pyr. Germ. p. 199. — Stromatibus multilocularibus, loculis radiatim v. sine ordine dispositis farctis, papilla atra, pertusa, singula in disculo cinereo, minimo centrali, rarius duabus apertis; sporulis cylindricis, curvulis, 5-6 ≈ 1,5; sterigmatibus basi hinc inde ramosis, 20-24 µ. plerumque longioribus.

Hab. in ramis tenuioribus Quercus, rarius prope Münster.

68. Cytospora cœnobitica Sacc. Valsæ cœnobiticæ stat. spermog. Nits. 1541 Pyr. Germ. p. 179. — Stromatibus e hasi suborbiculari depresse conicis vel convexis, multilocularibus, loculis radiatim stipatis, collo singulo centrali, raris duobus, late pertusis præditis; sporulis cylindricis, curvulis, hyalinis, in sterigmatibus brevibus, basi ramosis acrogenis, 5-6 = 1.

Hab. in ramis Quercus in Italia bor. et Germania, in radicibus Alni prope Münster.

69. Cytospora Quercus Sacc. Cyt. quercina West. in Lamb. Fl. Myc. 1542 Belg. an Schw.? — Peritheciis nigris; compressis, exiguis in pustulas conicas minutas congestis; disco erumpente rotundo, griseobrunneo, poro centrali pertuso; cirro flavo-aureo, denso, vario, sæpe torto; sporulis ovoideo-cylindricis, 2-guttulatis, hyalinis.

Hab. in ramis emortuis Quercus prope I uvain Belgii (LE-BURTON), prope Rouen Galliæ (MALBRANCHE). — An diversa a Cyt.



quercina Schw.? — Sporulæ in exempl. gallicis rectiusculæ, cylindraceæ, $3 \approx 1$, basidiis fasciculatis subfurcatis, sporula longioribus suffultæ.

70. Cytospora quercina Schw. Syn. Amer. bor. n. 2160. — Cellulis 1543 in conceptaculo incusis conico-irregulari nec tam efformato quam in Cyt. chrysosporma; ostiolis pluribus difformibus crassis; cirris lutescentibus mediocribus ex ostiolis.

Hab. in lignis ad ignem præparatis, Bethlehem Amer. bor. — Affinis Cyt. chrysospermæ.

71. Cytospora tumida Lib. Exs. n. 170, Fuck. Symb. I. p. 398. — 1544 Stromatibus erumpentibus, turgidis, intus plurilocularibus; sporulis cylindraceis, curvatis, minutis, $6 \approx 1^{1}/_{2}$, hyalinis.

Hab. in ramis putridis Quercus prope Weinheim Rhenogoviæ et in Arduennis.

72. Cytospora ventricosa Sacc. Mich. II. p. 344, Valsæ ventricosæ 1545 spermog. Fuck. Symb. Myc. p. 195. — Stromatibus conoideis vel subglobosis, denique liberis, majusculis, intus pluri-locellatis, olivaceo-nigris; sporulis allantoideis, minutis, 4 ≈ 1, hyalinis.

Hab. in ramis denique decorticatis Quercus in Gallia, Germania, Italia.

73. Cytospora epixyla Sacc. et Roum. Reliq. Libert. Ser. IV. n. 108. 1546 — Acervulis gregariis, epixylis, prorsus superficialibus, globosis inæqualibus, atris, 1/2-3/4 mill. diam., intus plurilocellatis; sporulis allantoideis, hyalinis, $4 \approx 1$; basidiis longis, bacillaribus, verticillatis vel vage ramosis.

Hab. in lignis Quercus in Arduennis (LIBERT). — Ad Dendrophomam cytosporoidem vergit.

74. Cytospora difformis Schw. Syn. Amer. bor. n. 2159. — Magna, 1547 cellulis in conceptaculo indistincto incusis, tam irregulari et sæpe obliterato ut cellulæ luteæ gyrosæ, materie nigra indurata repletæ, quasi in corticali substantia nidulare videantur, tamen nigro-circumscriptæ; ostiolis confusis crassis, emittentibus cirros rudes, majores incarnato-rubescentes, demum corneos, demum omnino tectos pulvere albo-filamentoso: prorumpit ex rimis corticis et facile maxima est species generis.

Hab. in maximis ramis quercinis ad ignem destinatis, Bethlehem Amer. bor.

75. Cytospora paradoxa (Dur. et Mont.) Sacc. Sphæronæma para- 1548 doxum Dur. e Mont. Fl. Alg. I. p. 578, Sphæria ceratosperma
Tode Meckl. 2, p. 53, Moug. et Nestl., Stirpes Vogesiacæ exsic.

n. 567! - Erumpens, convexa, sphæriæformis; peritheciis globosis longe rostellatis, stromate fusco-nigro junctis et cinctis; ostiolis spinulosis rectis vel tortuosis, scabris; sporulis minutis, allantoideis: basidiis convergentibus.

Hab, in ramis corticatis Quercuum in Algeria et Gallia.

76. Cytospora decorticans Sacc. Valsæ decorticantis st. spermog. 1540 Nits. Pyr. Germ. p. 194. — Stromatibus conicis, truncatis, papilla in disco albido centrali singula, atra aperta, multilocularibus, loculis minutis radiatim vel sine ordine stipatis; sporulis cylindraceis, curvulis, $4-5 \approx 1$, in sterigmatibus brevibus, 16μ , plerumque longis; basi crassiuscula dichotome vel trichotome ramosis, acrogenis.

Hab, in ramis exsiccatis Fagi silvatica et Carpini in

Suecia, Germania, Gallia, Italia, Belgio.

77. Cytospora ferruginea Desm. in Wallr. Fl. crypt. n. 3632. - 1550 Peritheciis 15-20, extus albidis circinantibus coacervatis in conceptaculo atro, crasso, orbiculari, planiusculo, hypophlœode; ostiolo centrali epidermidem perforante punctique albi instar prominulo, cirris ferrugineis; sporulis perexiguis ovoideis.

Hab. in ramis fagineis languentibus rarius in Gallia, Belgio et Germania. - Var. chionostoma Mont. Ann. Sc. Nat. 2, XX. p. 373. — Erumpens, cæspitoso-confluens vel striæformis; conceptaculis denudatis, globosis, atris: peritheciis circinantibus membranaceis, pallidis, ostiolo fusco, aureola nivea cincto. — Ad ligna

emortua denudata, Lugduni Galliæ (Montagne).

78. Cytospora durella Sacc. Valsce duriusculce st. spermog. Nits. 1551 Pyr. Germ. p. 234. — Stromatibus e basi orbiculari in conulum sensim attenuatis, subcutaneo-erumpentibus, multilocularibus, loculis numerosissimis, minutissimis, radiatim dispositis, poro in disco orbiculari, exiguo, niveo-centrali, singulo apertis; sporulis minutissimis, cylindricis, subrectis, 3 = 1, in sterigmatibus, basi ramosissimis, tenuissimis, 14 µ. longis, acrogenis ac tandem in cirros hyacinthinos rubros protrusis.

Hab. in ramis corticatis Fagi silvaticæ, Heimberg Helvetæ,

ubi legit Otth.

79. Cytospora duriuscula Sacc. Mich. II. p. 627. — Stromatibus co- 1552 nico-pulvinatis, 1 mill. diam., (excepto disco) tectis, vel cortice secedente subsuperficialibus, fuscis, disco minuto albo-pruinoso, intus pallidioribus, spurie plurilocularibus; sporulis allantoideis, leniter

curvis, $2.5-3 \approx 0.5-1$, hyalinis; basidiis bacillaribus, paulo longioribus.

Hab. in cortice emortuo Fagi, Lyon Galliæ (Therry). — Species elegans et distincta, forte sistens statum spermogonicum Valsæ duriusculæ.

80. Cytospora pustulata Sacc. et Roum. Mich. II. p. 627. — Conce- 1558 ptaculis plurilocularibus, intus griseis. subcutaneo-erumpentibus; sporulis allantoideis, $4-4^{1}/_{2} \approx {}^{3}/_{4}$, curvulis, hyalinis.

Hab. in ramis corticatis fagineis, Saintes Galliæ (BRUNAUD).

- Spermogonium, ut videtur, Valsæ pustulatæ.

81. Cytospora Juglandis (Schum.) Rabenh. Deutsch. Crypt. Fl. n. 1344, 1554
Næmaspora Juglandis Schum. Saell. II. p. 178. — Peritheciis circinantibus, epidermide bullato-inflata tectis; cirris guttiformibus vel elongatis, crassis, atris.

Hab. in ramis corticatis Juglandis in Germania. — «An Melanconii forma?».

82. Cytospora luglandina Sacc. Mich. II. pag. 264. — Stromatibus 1555 atris, subcutaneis, epidermide quandoque fissa tectis, plurilocularibus; sporulis cylindraceis, rectiusculis, 6-7 = 1, basidiis filiformibus, 10-15 = 1, suffultis; cirris.... non visis.

Hab. in cortice ramorum Juglandis regiæ, Padova Italiæ

bor. — Probe diversa a Cyt. Juglandis Rabh.

83. Cytospora elegans Ces. Flora 1854, pag. 205, Kl. Herb. Myc. 1556 n. 1868. — Tecta vel erumpens; stromate obsoleto; peritheciis 6-10; sporulis..... (non descriptis).

Hab. in ramis Plațani, socia Massaria Platani, Vercelli

Italiæ bor.

84. Cytospora Platani Fuck. E. F. N. n. 434, p. 52. — Peritheciis 1557 elongatis, numerosis, nigris, gelatinosis epidermidem tuberculoso-inflantibus, conceptaculo nullo, cirris tenuissimis, flexuosis, longis, candidis; sporulis allantoideis, 6-8 μ. longis.

Hab. in ramis Platani junioribus pr. Wiesbaden Germaniæ.
85. Cytospora personata Fr. Valsæ Auerswaldii stat. spermog. Nits. 1558
Pyr. Germ. p. 225. — Stromatibus e basi orbiculari conicis, truncatis vel fere hemisphæricis, pustulatis, disco orbiculari, albido, poro vulgo unico, spurie plurilocularibus; sporulis elongatis, curvulis, 6-8 ≈ 2, tandem in cirros rubro-hyacinthinos espulsis.

Hab. in ramis Rhamni Frangulæ, rarius in Fago, Betula, Malo et Salice caprea in Germania, Fennia, Italia bor.

86. Cytospora Acharii Sacc. Eutypæ Acharii stat. spermog. Nits. 1559

Pyr. Germ. p. 130. - Peritheciis in stromatibus longe lateque effusis immersis, sessilibus, e basi ovali elliptica vel suborbiculari convexis, depressis, atris, plerumque dense aggregatis, unilocularibus; sporulis cylindricis curvulis, hyalinis, in sterigmatibus brevibus, basi ramosis, solitarie acrogenis, tandem in cirros albidos protrusis.

Hab. in ramis crassioribus decorticatis Fagi, Pseudoplatani, Populi, Carpini, Pruni in tota Europa et Amer. bor.

87. Cytospora flavo-virens Sacc. Eulypie flavo-virescentis st. sperm. 1560 Nits. Pyr. Germ. p. 139. — Peritheciis in stromatibus concoloribus immersis, e basi suborbiculari depresse conicis, parietibus carnosis; sporulis cylindricis, curvatis, hyalinis, subsessilibus, adglutinatis, denique cirrose protrusis.

Hab. in corticibus et ligno Fagi, Quercus, Carpini, Salicis, Aceris, Pruni, Rhamni, Ribis, Populi, Rosæ, Betulæ etc. in tota Europa.

88. Cytospora leucosperma (Pers.) Fr. S. M. II. p. 543, Næmaspora 1561 leucosperma Pers. Syn. p. 108. — Stromate obsoleto, cellulis nigris circinantibus, confluentibus, disco plano albido, cirro albo.

Hab. ad ramos Prunorum, Fagi, Aceris, Carpini, Rosæ, Aquifolii in Suecia, Germania, Gallia, Italia, Austría, Amer. bor. — In forma Aceris campestris vidi: stromata subunilocularia, sed majuscula et sinuosa; sporulas allantoideas, 3,5-4 = 0,5-1; basidia verticillato-ramosa, longiuscula. — Vix nisi cirri colore a proximis differt. Cellulæ in corpus lobatum nigro-marginatum confluunt; discus variat albus, lutescens, ostiolo centrali subprominente.

89. Cytospora ceratophora Sacc. Mich. I. p. 519. — Stromatibus de- 1562 presso-conicis, subcutaneo-erumpentibus, plurilocularibus, olivatrofarctis; sporulis botuliformibus, 4-5 \precedel 1, hyalinis, basidiis simplicibus vel verticillato-ramosis, acicularibus, 20-50 u. altis suffultis.

Hab. in ramis corticatis Quercus, Sorbi, Castanew, Fraxini in Italia, Austria, Gallia. - Valsce ceratophorce spermog.

90. Cytospora ambiens Sacc. Mich. I. p. 519, Valse ambientis sperm. 1563 Nits. Fuck. - Stromatibus conico-depressis, gregariis, subcutaneoerumpentibus, atro-griseis, disco pallidiore; sporulis botuliformibus, $6 \approx 1$, hyalinis, sterigmatibus acicularibus, fasciculatis fultis.

Hab. in ramis corticatis Aceris, Ulmi, Fagi, Populi, Coryli, Castaneæ, Rubi, Betulæ, Fraxini, Quercus in Italia, Germania, Gallia, Austria, America australi.

91. Cytospora chilensis Mont. Syll. n. 922, Fl. Chil. VII. p. 478, t. 9, 1564



f. 11. - Maculis pallescentibus; peritheciis crassiusculis in cortice interiore nidulantibus subsimplicibus, intus amfractuoso-columellatis, disco erumpente ferrugineo; sporophoris inter cellulas parietales vesiculosas elongatis, sporulas lineares altero fine incurvas fulcientibus.

Hab. ad cortices arborum, in provinciis meridionalibus Chiles (GAY).

92. Cytospora hysteriformis (Pr.) Sacc. Hypoplasta Hysteriæforme 1565 Preuss F. Hoyersw. n. 288. — Superficialis extra carbonacea atra. intus subcarnosa alba, venis atris penetrata; peritheciis oblongis longitudinaliter et irregulariter plicatis, atris, in carne perithecii radiis atris e peripheria oriundis; nucleo sporularum mucoso albo; sporulis fusiformibus utrinque rotundatis, subcurvatis, albis, numerosis, continuis.

Hab. in ligno arborum frondosarum (in dejecta fibula lignea, Wäschklammer) in Hoyerswerda.

93. Cytospora Curreyi Sacc. Mich. II. p. 265, Valsce Curreyi stat. 1566 sperm. Nits. Pyr. Germ. p. 201. - Stromatibus e basi orbiculari, rarius ovali conico-truncatis vel fere hemisphæricis, protuberantibus, lateribus peridermio stellato-fisso, adhærente tectis, in disculo albido papilla poro minutissimo-pertusa, unica, centrali vel duabus tribusve instructis, multilocularibus, loculis numerosis, radiatim vel sine ordine dispositis; sporulis cylindricis, curvulis, 3-5 = 1; sterigmatibus subsimplicibus, 20-24, immo 32 μ. longis.

Hab. in ramis Laricis, Abietis excelse et Pini silvestris in Britannia, Gallia, Germania, Italia.

94. Cytospora Abietis Sacc. Cyt. Pini Fuck. nec Desm. Valsac Abie. 1567 tis stat. sperm. Nits. Pyr. Germ. p. 186. - Stromatibus exiguis, collo crasso rotundato vel truncato, ex griseo vel luteo fuscescente poroque angusto unico, rarius pluribus, aperto instructis, multilocularibus, loculis minimis, sine ordine denseque stipatis, cirris globulosis sordide flavis; sporulis exilissimis, cylindricis, curvulis, 3- $4 \approx 1$; sterigmatibus 12-16 μ . longis, parce ramosis.

Hab. in ramis corticatis Abietis excelsæ et Laricis in tota fere Europa.

95. Cytospora Friesii Sacc. Valsae Friesii stat. spermog. Nits. Pyr. 1568 Germ. p. 203. — Stromatibus phyllogenis, exiguis, conico-truncatis, parte inferiore folii parenchymati immersa, superiore erumpente, disculo instructis ex cinereo nigrescente, papilla minutissima, atra, poro angustissimo pertusa, singula, raro duabus ornatis;

Sphærioideæ, Hyalosporæ, Cytospora.

270

sporulis cylindricis, curvulis, $4-5 \approx 1$; sterigmatibus brevibus, parce ramosis.

 ${\it Hab.}$ in ramulis Abietis pectinatæ in Gallia, Germania, Belgio.

96. Cytospora Kunzei Sacc. $Valsæ^*Kunzei$ stat. sperm. Nits. Pyr. 1569 Germ. pag. 230. — Stromatibus poro in disco subrotundo, luteolo unico, centrali, rarius pluribus apertis, multilocularibus, loculis radiatim disposițis; sporulis cylindricis, curvulis, $5 \approx 1$, in cirros lutescentes tandem propulsis; sterigmatibus breviusculis, 20 μ . longis, parce ramosis.

Hab. in ramis corticatis Abietis pectinatæ et excelsæ in Germania, Gallia, Helvetia et Britannia.

97. Cytospora pithyophila West. Bull. Soc. Belg. t. V. n. 1, cum icone. 1570 — Stromatibus subcutaneis, conicis, disco erumpente atro, poro centrali pertuso; cirro albido; sporulis perexiguis, 2,5-3≥1.

Hab. in ramis Abietum in dumis Blankenberghe Belgii.

98. Cytospora Pini Desm. Nouv. Not. 1843, p. 46, Cyt. pinicola West. 1571 Exs. n. 933. — Immersa, conceptaculo nullo, loculis nigris oblongis, numerosis irregulariter circinantibus, disco erumpente plano fuligineo; ostiolis prominulis, atris, nitidis; cirris sulfureis, dein citrinis; sporulis (ex Nitschke) cylindraceis, subrectis, minimis, 4 ≈ 1; basidiis ramulosis filiformibus, 24 μ. longis.

Hab, in cortice truncorum Pini silvestris in Gallia et Belgio. — Spermogonium Valsæ Pini. Sec. West. sporulæ Cyt. pi-

nicolæ suæ habent longitudinem 6,5 μ .

99. Cytospora Saccardiana Roum. et Therry Rev. Myc. IV. p. 153. 1572
 — Pustulis convexo-applanatis, naviculiformibus, numerosis et approximatis; stromatibus oblongis, irregularibus, pluri- (2-6-)-locularibus, erumpentibus; sporulis minutissimis cylindricis, obtusis, leniter curvatis, in cirros ochraceo-albos protrusis, 4 μ. longis.

Hab. in ligno denudato Pini silvestris in Gallia. — Sec. auctores satis differt a C. Pini et C. pinicola.

100. Cytospora Mougeotii Lév. in Moug. Vog. n. 1272. — Stroma. 1573 tibus gregariis vel subsparsis, innatis leniterque prominulis, conicis, minutis, intus pluricellularibus griseis, disco angusto atro; sporulis allantoideis, hyalinis, 5-7 ≈ 0,7-1, basidiis duplo- vel triplo longioribus suffultis.

Hab. ad faciem internam corticis truncorum Abietis pectinatæ in Vogesis (Mouceor).

101. Cytospora Dubyi Sacc. Valsce Dubyi stat. spermog. Nits. Pyr. 1574



Germ. p. 187. — Stromatibus e basi orbiculari depresse convexis, innato-erumpentibus, multilocularibus, loculis circinatim dispositis, minutis, disco exiguo, albido-cinereo poroque unico, centrali instructis; sporulis cylindricis, curvulis, $5 \approx 1$; sterigmatibus breviusculis, subsimplicibus, tenuissimis.

Hab. in ramulis et foliis Juniperi communis in Helvetia et Germania.

102. Cytospora cenisia Sacc. Valsæ cenisiæ stat. sperm. Nits. Pyr. 1575 Germ. p. 185. — Stromatibus ampulliformibus, nunc in collum, poro unico pertusum, conico-attenuatis, nunc vero collo 3-5-angulari, poris circa medium majorem, 3-5 minoribus pertusis prædito, pauci-locularibus, locellis, 4-6, radiatim dispositis, majusculis; sporulis cylindricis, hyalinis, nonnihil curvatis, 5-7 ≈ 1,5; sterigmatibus subsimplicibus, 16-24 μ. long.; cirris filiformibus, pallide flavis.

Hab. in cortice Juniperi communis et virginianæ in Italia, Germania, Fennia, Amer. bor.

103. Cytospora Taxi Sacc. Valsce Taxi stat. spermog. Fuck. Symb. 1576 Myc. App. I. p. 316. — Stromatibus pustulatis, 2-3 mill. latis, convexis seu lato-obtuso-conicis, sæpe confluentibus, poro centrali minuto in disco orbiculari, plano, sordido, intus multilocularibus, corneis, griseis; cirris longissimis, piliformibus, contortis, aureis; sporulis cylindraceis, curvatis, continuis, 8 ≈ 1,5.

Hab. in ramis siccis corticatis Taxi baccatæ, Reichartshausen in Rhenogovia.

104. Cytospora Thujæ Sacc. et Ell. Mich. II. p. 573. — Stromatibus 1577 emergentibus, nigris, concideis, intus paucicellularibus; ostiolis prominuli, brevibus sulcatis; sporulis allantoideis, 5 = 1-1,3, hyalinis, basidis paulo longioribus, subfusoideis, simpliciter parceque verticillatis suffultis.

Hab. in cortice interiore Thujæ, Newfield, New Jersey Amer. bor. (Ellis). — A Cyt. Pini satis differe videtur, an e loco?

105. Cytospora parva B. et C. North Amer. Fungi n. 460. — Pustulis 1578 minutis, apice tantum punctiformi erumpentibus; peritheciis globosis; sporulis oblongis, angustis, enucleatis, 7 μ. longis.

Hab. in ramis Robiniæ in Carolina inf. Amer. bor.

106. Cytospora Robiniæ Schw. Syn. Am. bor. n. 2157. — Tuberculis 1579 majusculis, fusco-badiis, quadrato-elevatis ex epidermide prorumpentibus stellatim fissa, multis aggregatis cingentibus ramulos, apice subostiolato irregulariter depresso; intus nigrescit; cirris pallidis.

Hab. non rara in ramulis Robiniae in Amer. bor., vix Cyt. coccinea Fr.; nam cirrus omnino aliter coloratus.

107. Cytospora coccinea (Reb.) Fr. S. M. II. p. 541, Necmaspora 1580 coccinea Reb. Neom. p. 339. — Immersa; ostiolo subprominente nigrescente; cirris filiformibus coccineis.

Hab. in ramis siccis Robiniæ Pseudacaciæ in Germania.
108. Cytospora orthospora B. et C. North Amer. Fungi n. 458. — 1581
Pustulis parvis, demum erumpentibus planis; peritheciis basi planodilatatis; sporulis lineari-oblongis, 10 u. longis.

Hab. in ramis Robinia in Pensylvania et New Jersey America borealis.

109. Cytospora Sarothamni Sace. Eutypæ macrosporæ stat. sperm. 1582 Nits. Pyr. Germ. p. 145. — Stromatibus tuberculiformibus depresse convexis, atris, sessilibus, sparsis vel dense congregatis, unilocularibus, vertice tandem poro vel rima minuta dehiscentibus; sporulis cylindricis, nonnihil curvatis vel subrectis, subhyalinis, in sterigmatibus brevibus, dense cæspitosis; acrogenis, 7-10 \(\infty\)2.

Mab, in ramis crassioribus Sarothamni vulgaris prope Münster Germania.

110. Cytospora Syringæ Sacc. Valsæ Syringæ stat. spermog. Nits. 1583 Pyr. Germ. p. 189. — Stromatibus exiguis, per peridermii rimas minutas ac longitudinaliter directas erumpentibus, multilocularibus, loculis confertissime et sine ordine stipatis, minutissimis, foramine plerumque unico, in disco ex griseo sordide fuscescente centrali apertis; sporulis cylindricis, curvulis, $5 \approx 1$: sterigmatibus densissime caspitosis, subramosis, tenuibus, usque ad 60 μ . longis.

Hab. in ramis Syringæ vulgaris in Germania et Italia bor.
111. Cytospora minuta Thum. in Myc. Univ. n. 890. — Pseudo- 1584 peritheciis (stromatibus?) gregariis, erumpentibus, elevatis, hemisphæricis, primo tectis, demum mox liberis, atris, cirros candidos propellentibus; sporulis minutis, cylindraceis, rectis, utrinque obtusatis, hyalinis, 4-5 ≈ 1-1,5.

Hab, in ramulis emortuis, pracipue tenuibus sed adhuc pendulis, Fraxini excelsioris, Bayreuth Bavariæ.

112. Cytospora elæina Mont. Cent. VI. p. 87, in Ann. 3, XII. p. 305, 1585 et Syll. n. 926. — Peritheciis gregariis, cortice tectis, globoso-depressis, pachydermaticis, subtus collabenti-umbilicatis, intus cellulosis, atro-farctis; ostiolo erumpente nigro; cirro crasso, atro, nitido; sporophoris apice fasciculato-ramosis, 40 μ . longis; sporulis minutissimis achromaticis, $5\approx 2$.

155

Sphærioideæ, Hyalosporæ, Cytospora.

273

Hab. in ramulis Oleæ europææ, Montaud-lez-Miramas Galliæ australis (Castagne).

113. Cytospora extensa Sacc. Mich. II. p. 344. — Stromatibus gre- 1586 gariis, peridermio tectis, globulosis, intus pluri-locularibus, atris; disco vix erumpente; sporulis allantoideis, curvulis, utrinque rotundatis, 5 ≈ 1, hyalinis, basidiis fasciculatis e strato proligero ferrugineo enatis, acicularibus, 15 ≈ 1, suffultis.

Hab. in ramis corticatis Rhamni alpinæ in Gallia australi.

- Forte Eutypellæ extensæ (Fr.) spermogonium.

114. Cytospora epileuca Sacc. Mich. II. p. 265. — Stromatibus globoso-depressis, initio epidermide velatis, dein suberumpentibus, disco complanato, albo-furfurello, 2-4-locularibus; sporulis allantoideis, $9-11 \approx 1\frac{1}{2}-1\frac{3}{4}$, utrinque obtusiusculis, curvatis, nubilosis, hyalinis, basidiis fasciculatis, simplicibus, filiformibus, $25-30 \approx 1$, e basi prolifera flavicante oriundis suffultis.

Hab. in ramis corticatis Rhamni catharticæ in Italia bor.

115. Cytospora Ceanothi Schw. Syn. Amer. bor. n. 2158. — Conceptaculo nullo; cellulis fuligineis circinantibus in massa corticali, formante tuberculum ovatum, subelevatum sub epidermide; disco in centro inæquabili, cirro sordide albo deciduo; gelatina in cellulis cornea indurata; minutissima, vix semilineari diametro, sed frequentissime prorumpens ex corticis rimis.

Hab. frequens in virgultis emortuis Ceanothi, Bethlehem Americae bor.

116. Cytospora ericeti Sacc. Fungi Gall. Ser. VI. n. 2252. — Peritheciis hinc inde aggregatis, subcutaneo-erumpentibus, papillatis, atris, ¹/₄ mill. d.; sporulis cylindricis, curvis, 11-14 × 2, hyalinis; basidiis bacillaribus brevioribus.

Hab. in trunco corticato Ericæ, Rouen Galliæ (Malbranche).
117. Cytospora Ribis Ehrenb. Sylv. Berol. p. 28, Fr. S. M. II. p. 545.
— Stromate crasso, atro, grumoso; ostiolo rudi ex epidermide demum emerso; cirro rudi aureo; sporulis oblongo-allantoideis, 3 ≈ 1; basidiis longis ramosis.

Hab. in ramis Ribis rubri in Germania, Gallia, Belgio. — Forte spermogonium Eutypellæ Brunaudianæ.

118. Cytospora atrovirens Fr. S. M. II. p. 545. — Stromate mem1591
branaceo, disco erumpente; cirris nigro-viridibus.

Hab. in ramis alneis in Kamtschatka (Wormsk.), et in ramis Corni albæ in Belgio (Limminghe). — Cellulæ in orbem depressum collectæ, membranula cinctæ, gelatina nigro-viridi glomerata

18

vel per multas spiras demum inspissatas diaphanas varie flexas e centro pertuso erumpente.

119. Cytospora chloroglæa B. et C. North Amer. Fungi n. 464. — 1592 Pustulis oblongis hysteriiformibus, apice planis; sporulis allantoideis, curvulis, minutissimis, chlorinis.

Hab. in ramis Corni sericæ in montibus New York Am. bor.

120. Cytospora Tiliæ Sacc. Mich. I. p. 519. — Conceptaculis pluri- 1598 locularibus, innato-erumpentibus, laxe gregariis, 1-2 mill. diam., stromate flavo interspersis; loculis inæqualibus griseis; sporulis botuliformibus, 7-8 ≈ 1, hyalinis, in cirros varios succineos denique expulsis.

Hab. in ramis Tiliæ europææ prope Rouen Galliæ (Leten-

DRE). — A Cyt. carphosperma Fr. valde diversa.

121. Cytospora carphosperma Fr. S. M. II. p. 545. — Stromate ob- 1594 soleto, cellulis nigris eircinantibus, disco sordido; eirro citrino, dein subcroceo; sporulis minutissimis, allantoideis, 5-6,5 μ. longis.

Hab. in ramis Tiliæ europææ et Piri Mali in Suecia, Germania, Italia, Austria, Gallia. — Pustulæ orbiculatæ, depressæ, nigræ, in cortice interiore fibroso nidulantes, stromate ceraceo tegente, formantes discum erumpentem rotundum vel ellipticum, planum, sordidum, sed expallentem, centro ostiolo nigro perforatum; dissectæ monstrant cellulas numerosas, oblongas, difformes, circa perithecium centrale globosum aggregato-circinantes, plerumque cera concolori farctas, nullo stromate cinctas. Ostiolum nunc porosum, nunc papilliforme. Gelatina straminea, sicca lutescens.

122. Cytospora Gordoniæ B. North Amer. Fungi n. 463. — Pustulis 1595 minutis immersis; sporulis brevibus, fortiter curvatis, utrinque

angustioribus.

Hab. in pedunculis Gordoniæ lasianthæ in Carolina superiore Americæ bor.

123. Cytospora Aquifolii Fr. in Duby Bot. Gall. II. p. 725. — Pe- 1596 ritheciis nigris circinantibus, conceptaculo nullo, disco convexo griseo, ostiolo centrali prominulo aterrimo.

Hab. ad corticem Ilicis in monte Vogeso (Movemor).

124. Cytospora Hippophaës Thum. F. Austr. n. 282. — Peritheciis 1597 (stromatibus?) sparsis, magnis, epidermide tectis, demum erumpentibus, atris; sporulis cylindraceis, rectis, hyalinis, minimis.

Hab. in ramis truncisque emortuis Hippophaes rhamnoi-

dis prope Krems Austriæ infer.

125. Cytospora ilicina Sacc. Valsæ Aquifolii stat. sperm. Nits. Pyr. 1598

Sphærioideæ, Hyalosporæ, Cytospora.

Germ. p. 231. - Stromatibus subcutaneo-erumpentibus, pustulatis, multilocularibus, loculis minutissimis numerosis, monostiche stipatis, poro in disculo orbiculari medio unico apertis; sterigmatibus subsimplicibus, eseptatis, 20-24 = 2; sporulis cylindricis, curvulis, vel subrectis, subhyalinis, $5-7-8 \approx 1$.

Hab. in ramis emortuis Ilicis Aquifolii prope Münster Germaniæ.

II. Foliicolæ et fructicolæ.

126. Cytospora Pinastri Fr. S. M. II. p. 544. — Stromatibus innato- 1599 erumpentibus conicis, plurilocularibus, loculis nigris circinantibus. disco subrotundo tuberculoso atro, cirro rudi lacteo; sporulis allantoideis, $5 \approx 1.3$, hyalinis; basidiis fasciculatis, acicularibus, $20-25 \approx 1$.

Hab. in foliis Pini silvestris, Abietis excelsæ et pectinatæ etc. in Gallia, Suecia, Germania, Italia, Belgio. - Loculi in ipso folii parenchymate nidulant, irregulares. Discus valde prominens, opacus, rugosus, dein planiusculus cinereo-niger, ostiolo valde prominulo.

127. Cytospora Oleæ De Not. Micr. Dec. 5, n. VIII. - Epiphylla, 1600 maculis fuscescentibus innata, punctiformis; stromatibus orbicularibus, 15-20-locellatis, loculis seu peritheciis convergentibus, com: pressis, subpyramidatis; ostiolis minutis, pertusis, junctis; nucleo albido; sporulis cylindraceis, minutissimis, utrinque obtusiusculis, hyalinis.

Hab. in foliis siccis Olemeuropmm prope Genova Ital. bor. - Ab affini C. foliicola peritheciis magis discretis, sporulis majoribus distinguenda.

128. Cytospora phyllogena Penz. et Sacc. Fl. M. Gener. n. 119. — Con- 1601 ceptaculis hypodermicis, dein prorumpentibus, plurilocularibus, nigris, disco albo; sporulis cylindricis, continuis, rectis vel leniter curvulis, utrinque rotundatis, 10-12 = 2,5-3, hyalinis, eguttulatis, muco abundanti insitis; basidiis obsoletis.

Hab. in foliis putrefactis Rubi sp. in Monte Generoso. — A C. Laurocerasi et C. foliicola sporulis longioribus, basidiis obsoletis diversa.

129. Cytospera foliicola Libert. Exs. n. 64. — Stromatibus subcu- 1602 taneo-erumpentibus, conico-depressis, atris, paucilocularibus; disco pallido; poro communi centrali; cirro albido; sporulis botuliformibus, 7 = 1, hyalinis, basidiis filiformibus, fasciculatis æquilongis fultis.

Hab. in foliis Hederæ, Vincæ, Aceris, Quercus, Evonymi, Cratægi, Smilacis in Germania, Gallia, Italia, Algeria. — Sec. Desm.: sporulæ utrinque obtusæ, 10 μ. long. — Var. Kalmiæ Sacc. Mich. II. p. 142 (Ceuthospora): stromate pulvinatoconico, intus paucilocellato, 1/2-3/4 mill. diam.; sporulis cylindroideis, $10-12 \approx 1^{1}/_{2}-1^{3}/_{4}$; basidiis teretibus, 5-6 μ . long. subcurvis suffultis. In pag. inf. foliis Kalmiæ latifoliæ in Carolina.

130. Cytospora Laurocerasi Fuck. En. F. Ness. n. 437. — Stromate 1603 conico, obtuso, nigro; disco albo; cirris longis, rubescentibus; sporulis botuliformibus, 6-8 = 1, in sterigmatibus acicularibus, verti-

cillato-ramosis, triplo longioribus acrogenis.

Hab. in foliis putrescentibus Pruni Laurocerasi in Germania, Gallia, Italia, Austria. — *ramulorum Sacc.: sporulis allantoideis, 5-6 = 1, basidiis breviusculis ramulosis suffultis. — In ramulis Pruni Laurocerasi in Gallia.

131. Cytospora Metrosideri Rabenh. Hedw. 78, p. 115. — Hypophyl- 1604 la; peritheciis 5-6 connatis, in foliorum parenchymate nidulantibus, epidermide tectis, demum nudis; disco albido, cirris tenuibus, luteolo-pallidis; sporulis bacilliformibus, leviter curvatis, hyalinis, ad 6 \u03bc. longis.

Hab. in foliis Metrosideri, Auckland (H. Krone).

132. Cytospora piricola West. in Bull. Ac. Belg. t. XIX. — Peri- 1605 theciis flavicantibus, compressis, exiguis, pustulas subrotundas, immersas, disco albido, poro pertuso coronatas formantibus; cirro rubro-carneo, torto; sporulis perexiguis, ovoideo-cylindricis, 2guttulatis.

Hab. in fructibus Piri japonicæ, Namur Belgii.

133. Cytospora palmicola B. et C. Exot, Fungi, Schweinitz. Herb. 1606 p. 280. — Nigra nitida, epidermide tecta; loculis superficie stromatis nidulantibus globosis; sporulis lineari-oblongis, curvulis, minutissimis, 2,8-3 μ . long.

Hab. in fructibus Cocos nuciferæ, St. Kitts.

III. Herbicola.

134. Cytospora tithymalina Pass. et Beltr. F. Sicul. n. 29. — Con- 1607 ceptaculis conoideis, subcutaneis plurilocularibus, disco planiusculo fusco per epidermidem fissam erumpenti; sporulis minutissimis, cylindricis, curvulis, hyalinis, 3-31/2 μ. long., basidiis acicularibus longiusculis fultis.

Hab. in ramis aridis Euphorbiæ dendroidis (?) cum Leptosphæria sacculo, Monostalla Siciliæ.

135. Cytospora Libertella Dur. et Mont. Fl. Alg. I. p. 316, sec. Syll. 1608 n. 924. — Peritheciis tenuibus, in cortice interiore nidulantibus, simplicibus, anfractuosis; sporophoris longis, sporulisque linearibus, curvatis, hyalinis; cirris.....

Hab. in caulibus emortuis Salsolæ oppositifoliæ, Mostaganem Algeriæ (Durieu).

IV. Species imperfecte descriptie.

- 136. Cytospora Dahliæ Peyl in Lotos 1857, p. 67, t. II. f. 11. In 1609 Bohemia.
- 137. Cytospora Peylii Rabenh. in Lotos 1857, p. 28, n. 6, f. 6. 1610
 In Bohemia orient.
- 138. Cytospora Sphærula Duby Bot. Gall. II. p. 725. In Gallia. 1611
- 139. Cytospora endophylla Fr. Summa p. 413. In foliis Vacci-1612 nii Vitis ideæ in Suecia.
- 140. Cytospora laxa B. et C. North Amer. F. p. 80. In Caly-1613 cantho in Carolina inf.
- 141. Cytospora coryneoides B. et C. North Amer. F. p. 80. In 1614 Vite Labrusca Amer. bor.
- 142. Cytospora pustulata B. et C. North Amer. F. p. 80. In ra-1615 dicibus Quercus albæ Amer. bor.
- 143. Cytospora Micheneri B. et C. North Amer. F. p. 80. In 1616 Fraxino Amer. bor.
- 144. Cytospora Ailanthi B. et C. North Amer. F. p. 80. In Ai-1617 lantho Amer. bor. Hæc species et quatuor præcedentes sporulis allantoideis instructæ sunt, sed parum distinctæ.
- CEUTHOSPORA Greville Sc. Cr. Flor. n. 9. (Etym. ceutho abscondo, et spora). Stroma innato-erumpens, conico-truncatum, subcoriaceum, intus pluri-loculare, rarius sub 1-loculare; ostiolis in unum centrale sæpe confluentibus. Sporulæ oblongo-cylindraceæ, sæpius rectiusculæ, hyalinæ, stipitatæ, subinde cirrose expulsæ. A Cytospora stromate sæpe duriore et magis regulari sporulisque rectiusculis vix differt. An satis? Species nonnulæ Coccoboli et Helicoboli Wallrothianæ a beato Rabenhorst ad Ceuthosporam ductæ inter genera dubia relegandæ sunt.
- 1. Ceuthospora phacidioides Grev. Sc. Cr. Flor. V. tab. 253, Phaci- 1618 dium multivalve Schmidt., Xyloma multivalve DC., Sphæria He-

deræ Fr. var. B., Sphæria bifrons Sow., Cryptosphæria bifrons Grev. Fl. — Stromatibus sparsis, innatis, depressis, piceis, nitidis e 3-7 peritheciis dense coalitis compositis, ostiolo in centro disci, albo furfuraceo, epidermide laciniata cincto; sporulis teretiusculis. rectis, obtusis; cirro albido.

Hab. in foliis Ilicis Aquifolii in Gallia, Britannia, Germania, Italia, Austria. - F. Citri Penz, Mich. II. p. 433, Chælopyrena Hesperidum Pass.: peritheciis hypodermeis, binis, ternis vel pluribus dense coalitis, apice paullum setulosis; basidiis cylindraceis, simplicibus vel parce ramosis, hyalinis, 9-10 = 3,5-4; sporulis numerosissimis, cylindraceis, rectis, utrinque apice rotundato, 13-14 ≈ 3,5-4, hyalinis. — In foliis putridis Citrorum, Porto Maurizio Liguriæ occid. (G. GENTILE), Coimbra Lusitaniæ (MESNIER).

2. Ceuthospora calathiformis Fuck. Symb. p. 398. — Peritheciis car- 1619 bonaceis, minutis, irregularibus, astomis, 4 = 12 in acervulum $\frac{1}{2}$ lin. diam., densum, orbicularem congestis, marginalibus majoribus prominulis, atris; sporulis cylindraceis, rectis, $10-14 \approx 2$.

Hab. in ramulis siccis Salicis auritæ, rarius in Rhenogovia.

3. Ceuthospora glandicola S. R. B. Misc. Mycol. p. 19. — Stroma. 1620 tibus sparsis, e basi subplana depresse conicis, subsuperficialibus, atris, nitidulis, 1/2 mill. lat. intus 2-4-loculatis; contextu minute celluloso rufo-fusco; sporulis fusiformibus, curvulis, utrinque acutis, hyalinis, $15-17 \approx 1.5$; basidiis obsoletis.

Hab. in glandibus emortuis quercinis prope Bruxelles Belgii.

4. Ceuthospora subcorticalis Fuck. Symb. p. 398. — Peritheciis car- 1621. bonaceis, fragilissimis, minutis, globosis, 4-12, in stromate lenticulari, rotundato, adnato, aterrimo, circinante dispositis; ostiolis prominulis, punctiformibus; sporulis anguste cylindraceis, rectis, obsolete (et spurie?), 2-3-septatis, $10 \approx 2$, hyalinis, in pulvere alboexpulsis.

Hab. in cortice interiore Betulæ albæ in khenogovia.

5. Ceuthospora Cookei Thum. F. Amer. n. 17. — Stromatibus amphi- 1622 genis sed plerumque hypophyllis, pustulas minutissimas, dense gregarias, subprominentes, atras, hemisphæricas formantibus; sporulis cylindraceis, utrinque rotundatis vel vertice leniter acutatis, simplicibus, enucleatis, hyalinis, 15 = 4.

Hab. ad folia decidua Cerasi carolinianæ, Aiken in Carol. austr. Amer. bor. (H. W. RAVENEL). - C. phacidioidi Grev. proxima sed diversa.

6. Ceuthospora Oleæ Kalch. et Cooke Grev. 1880, p. 59. — Epiphyl- 1623

la; maculis orbicularibus, fuscis; peritheciis depressis, rimose dehiscentibus; sporulis cylindricis, utrinque obtusis, hyalinis, $30 \approx 3.5$. Hab. in foliis Oleæ capensis in Africa australi.

7. Ceuthospora Alaterni Thum. Fung. Litor. n. 369. — Stromatibus 1624 epi- raro etiam hypophyllis, dense gregariis, pro ratione magnis, subconico-emersis, postremo fere lenticularibus, disco pallido, nigris, sine macula distincta; sporulis bacillaribus, rectis, utrinque obtusis, enucleatis, continuis, hyalinis, 12-16 = 2.

Hab. in foliis languidis et aridis Rhamni Alaterni, St. Nicolo prope Parenzo in Istria.

8. Couthospora brevispora Cooke et Harkn. Grev. 1881, p. 84. — 1625 Epiphylla; peritheciis (stromatibus?) applanatis, in lacinias parvulas dehiscentibus; nucleo subæruginoso; sporulis cylindricis, obtusis, hyalinis, continuis, 10-14 \times 3.

Hab. in foliis Heteromeles arbutifoliæ in California Americæ borealis.

Geuthospora monocarpa Mont. Fl. Chil. VII. p. 480, Syll. Crypt. 1626
 n. 928. — Hypophylla, punctiformis, submonocarpa; peritheciis solitariis, stromate parenchymatico orbiculato, atro-marginato immersis, ostiolo cuticulam stellato-fissam sublevante; sporulis linearibus, hyalinis.

Hab. in foliis coriaceis, Chile (GAY).

10. Ceuthospora minima Cooke et Hark. in Grevillea. — Amphigena, 1627 parvula, convexa, atra, nitida, $\frac{1}{6}-\frac{1}{5}$ mill. diam., sparsa vel in maculas irregulares aggregata, demum sursum erumpens; sporulis bacilliformibus, obtusis, hyalinis, $20 \approx 1$; sporophoris brevibus, simplicibus.

Hab. in foliis Vaccinii in California Amer. bor.

11. Ceuthospora Lauri Grev. Scot. Fl. t. 254. — Stromate obtuse 1628 conico, epidermide 3-4-radiatim fissa cincto, sub-uniloculari, brunneo-nigro; sporulis in basidiis ramulosis, acrogenis, botuliformibus, 4-5 ≈ 1-1½, hyalinis.

Hab. in foliis emortuis Lauri nobilis in Italia, Belgio, Austria et Britannia. — Forma ramulicola (Vize F. B. n. 104) paullulum recedit peritheciis sporulisque paulo majoribus, $5-6 \approx 1 \frac{1}{2}$. In ramulis Lauri in Britannia.

12. Ceuthospora Liriodendri West. Bull. Ac. Roy. Belg. II. t. XII. 1629 n. 7. — Stromatibus minutis, immersis, dein erumpentibus et fere liberis, sparsis, atro-nitidis; ostiolo papillato, collo longiusculo; nucleo albido; sporulis elongatis, hyalinis, 2-guttulatis.

Hab. in fructibus Liriodendri Tulipiferæ in hortis Namur Belgii. — «An Ceuthospora genuina?».

13. Ceuthospora Diospyri Wint. Hedw. 1881, p. 148. — Hypophylla, 1630 maculas immarginatas, atras, sparsas formans; stromatibus innato-erumpentibus, atris; sporulis cylindraceis rectis, 12-13 ≈ 2,5, medio (spurie?) septatis, hyalinis.

Hab. in foliis Diospyri Embryoptes in horto botanico

Calcutta Indiæ (S. Kurz).

14. **Geuthospora concava** Desm. 14 Not. p. 17. — Amphigena, inna- ¹⁶³¹ ta, sparsa, nigra, nitida, rotunda, convexa, dein concava; nucleo solitario, albido, gelatinoso; sporulis minutis, numerosis, oblongis, curvulis, 2-3-guttatis, 10 ≈ 2,5.

Hab. in foliis semiputridis Rosæ bengalensis cultæ in Gallia.

15. Ceuthospora olivacea Corda Icon. I. p. 24, f. 296. — Stromate 1632 immerso, plano, atro-marginato, disco luride olivaceo, carnoso, intus luteo; perithecio solitario, corneo, ovoideo centrali, immerso; collo subclavato, atro, emergente; sporulis fusoideis, 2-guttatis, hyalino-luteolis.

Hab. in foliis semiputridis Pandani odoratissimi culti in Bohemia.

16. Ceuthospora umbonata Wallr. Fl. Crypt. n. 3608. — Stromati- 1633 bus synphlœodeis, primum punctiformibus, orbiculatis, atris, dein umbonatis rugosis, punctis impressis inscriptis, vertice depresso, demum irregulariter dehiscentibus.

Hab. ad folia Iberidis sempervirentis hortorum in Thuringia.

Species nomine tantum mihi notæ.

17. Geuthospora Asparagi Lasch in Kl. Herb. n. 1063. — Driesen 1634 Germaniæ.

REPERTORIUM

SPHÆRIOIDEARUM HYALOSPORARUM

SECUNDUM MATRICES

Ohs. Ap. indicat Aposphæria. — A. Asteroma. — As. Asteromella. — C. Chætophoma. — Ce. Ceuthospora. — Ci. Cicinnobolus. — Cr. Crocicreas. — Ca. Cytospora. — Cy. Cytosporella. — D. Dendrophoma. — Do. Dothiorella. — F. Fuchelia. — Fu. Fusicoccum. — Mu. Muricularia. — My. Mycogala. — N. Neottiospora. — P. Phoma. — Pe. Pechia. — Ph. Phyllosticta. — PhD. Phyllosticta (Depazea). — Pi. Piptostomum. — Pa. Placosphæria. — Pl. Plenodomus. — Pr. Pyrenochæta. — Pm. Pyrenotrichum. — R. Rabenhorstia. — Sc. Sclerotiopsis. — Si. Sirococcus. — S. Sphæronæma. — St. Staurochæta. — V. Vermicularia. — Y. Ypsilonia.

Abies — P. 427, 429, 430, 431, 592, 601, 602, 893, 894, 898, — S. 1143, 1145, 1150, 1154, — Si, 1296, 1297, — V. 1322, — Do, 1417, — R. 1430, — Ca, 1566, 1567, 1568, 1569, 1570, 1573, 1599.

Acacia — P. 877. — Ap. 1040. — Pa. 1442.

Acanthus - P. 764.

Acer — Ph. 56, 57, 59, 60, 61, 161, —
P. 538, 539, 540, 541, 687, 909, 910,
911, — Ap. 1049, 1050, — As. 1093,
— S. 1112, 1113, 1114, — C. 1189,
— A. 1234, — V. 1336, — Ca. 1506,
1507, 1508, 1534, 1559, 1560, 1561,
1563, 1602,

Achillea - P. 738.

Aconitum — PhD. 358. — P. 795. — A. 1272.

Acorus — Ph. 328. 329. Adenostyles — Si. 1298. Adoxa - PhD. 359.

Ægopodium — Ph. 252. — P. 1017. Æsculus — Ph. 1. 3. — P. 475. 476. 919. — Ap. 1029. — V. 1324. 1325. 1336. — Fu. 1446. — Cv. 1470.

Agapanthus - P. 941.

Agave - P. 956, 957.

Agrimonia - PhD. 360.

Agrostis - Pa. 1443.

Ailanthus — Ph. 160. — P. 559, 560, 561, 562, 694. — Do. 1412. — Ca. 1617.

Ajuga - Ph. 276.

Albizzia — P. 396.

Alisma - Ph. 331, 332.

Allium - P. 940. - V. 1375. 1376.

Alnus — Ph. 165. — P. 580, 581, 582, 583, 904. — D. 1084. — Pr. 1204.

— Pa. 1445. — Ca. 1509. 1510. 1511. 1512. 1513. 1591.

Aloe - Ph. 335. - P. 958.

Althæa - Ph. 214, 215. - P. 728. 729. 801, 922,

Alysicarpum — P. 714.

Amaryllis - V. 1374.

Amelanchier — A. 1205. — S. 1121.

Ammophila - P. 995. - A. 1286.

Amorpha - P. 393.

Ampelopsis - P. 466. 470. 472. S. 1118.

Amygdalus - Ap. 1067.

Anamirta - Ph. 152.

Andromeda - Ph. 120. - P. 660.

Andropogon - P. 989. - V. 1384.

Anethum - P. 745, 746.

Angelica - Ph. 252. - P. 747. 751. V. 1336.

Angræcum - A. 1279.

Anoda - P. 725.

Anonaces - P. 692. - Y. 129.

Antirrhinum - P. 793. 802. - Ci. 1293.

Apium - P. 745.

Aquilegia - PhD. 351.

Aretium - V. 1353.

Arctostaphylos - A. 1231.

Areca - PhD. 372.

Aristolochia - P. 793. - V. 1366.

Arnica - Ph. 249. Aronicum - Ph. 241.

Artemisia — P. 735. 793. 829. 849. 850. - Ap. 1038.

Artocarpus - Pr. 1308.

Arundo - P. 987. 988. - A. 1285. 1287.

Arum - V. 1329.

Arundinaria - A. 1258.

Asclepias - P. 923.

Asparagus - P. 966. 967. - Ce. 1634.

Asperula - PhD. 361.

Asphodelus — P. 962, 963, 964, — A. 1280. — V. 1374.

Aster - P. 848.

Astragalus — Ph. 234. — P. 804.

Atalantia - Ph. 53.

Atriplex - Ph. 299. - P. 748. 829. 830.

Arabis - P. 795.

Aralia - P. 423. 622.

Arauja - P. 812.

Arbutus — Ph. 118. 119.

Aucuba - Ph. 156. 157. - P. 684.

Aurantiaceæ - Do. 1408.

Ballota — PhD. 365. — P. 774. 775. 794. - A. 1255.

Bambusa — P. 992.

Batatas - Ph. 281. 282.

Bauhinia - Ph. 47.

Berberis - Ph. 133. 134. - P. 421. 422. 423.

Beta - Ph. 298.

Betonica - P. 77°.

Betula — Ph. 170. — P. 584, 585. — S. 1135. 1162. — A. 1241. — Do. 1394. 1404. — Fu. 1457. 1467. — - Ca. 1514. 1515. 1526. 1527. 1534. 1558. 1560. 1563. — Ce. 1621.

Bignonia - Ph. 148.

Blitum - P. 748.

Bœhmeria — P. 831.

Borragineæ - P. 803.

Brassica — Ph. 206. 207. — Po. 709. 710. 711. - P. 793. 802. 914. 915. -Ap. 1039. - Pl. 1101. - A. 1253.

Bromelia - V. 1370.

Broussonetia - P. 566.

Buddleja - Ph. 150.

Bumelia - P. 689. 690.

Bupleurum - Ph. 251. - A. 1260. 1261.

Buxus - Ph. 124, 125, - P. 524, 623. 624. 625. 626. 627. — Ca. 1502.

Cacalia — A. 1265. 1266.

Cactus - P. 817.

Caladium - P. 976.

Calamagrostis — P. 996. 997.

Callistemon — Ph. 122.

Calluna — P. 500. 501. — Ap. 1036. 1069.

Calotropis — P. 535. 676.

Caltha - PhD. 348.

Calycanthus — Ph. 35. — P. 665. — Ca. 1613.

Calystegia — Ph. 279, 280, — P. 793. Camellia - Ph. 129. Campanula - Ph. 283. Cannabis - Ph. 294. Capparis - Ph. 210. - P. 793. Caragana — Ph. 41, 42, — P. 610. Carex — Ph. 340. — P. 979. 980. — N. 1294. - Pr. 1314. Carissa - Ph. 190. Carlina - P. 737. Carolinea - P. 678. Carpinus - Ph. 168, 169, - PhD, 371, — P. 589. — D. 1084. — S. 1133. A. 1217. — Fu. 1464. 1465. — Ca. 1533. 1534. 1549. 1559. 1560. 1561. Cassia — P. 384. 876. Castanea — Ph. 189. — P. 102. 903. — D. 1083. — A. 1242. — V. 1329. - Do. 1403. - Fu. 1460. 1461. -Ca. 1562, 1563. Catalpa - Ph. 147. - P. 537. 793. 926. 927. — S. 1123. — V. 1324. 1360. Causcora - P. 784. Ceanothus - Ca. 1588. Cedrus — P. 891. Celastrus - PhD. 369. - P. 470. Celosia - Ph. 296. Celtis - Ph. 161. Centauren - P. 742, 743, 744, 847. Centranthus — P. 813. — A. 1272. Cerasus — A. 1202, 1227. — Ca. 1488. 1489. 1490. — Ce. 1622. Ceratonia - Ph. 48. Cerbera — Pm. 1095. Cercis - Ph. 36. - P. 390. 870. Cereus - P. 818. Chænomeles — Ph. 12. Chærophyllum — P. 752. — A. 1262. V. 1336. Chara — P. 1006. Chenopodium - Ph. 299. 303. 304. — P. 748. — C. 1197. — V. 1336.

Cheiranthus — Ph. 205. — P. 913.

1348.

Cherleria — P. 860.

283 Chrysanthemum - Ph. 241. Chuquiraga - P. 683. Cichoriaceæ - P. 734. Cichorium - P. 795. Cinnamomum — P. 662. — V. 1332. Circæa — Ph. 309. Cirsium — Ph. 238. 239. — A. 1274. Cistus - Ph. 128. Citrus — Ph. 49. 50. 51. 52. 53. 54. 55. — P. 487. 488. 489. 490. 492. 493. 494. 495. 615. 616. 617. 618. — D. 1075. — Ap. 1034. 1635. — Ce. . 1618. Clematis — P. 705. 706. 707. — V. 1336. Clitorea — P. 875. 876. Clethra — Ph. 123. — S. 1125. Cocos — Ph. 330. — P. 932. 933. 934. — Ca. 1606. Colchicum — V. 1370. Colutea — PhD. 368. — P. 385. 870. 873. — A. 1277. Compositæ — A. 1274. Coniferæ - P. 424. Conium - V. 1336. Convallaria — PhD. 378. — A. 1280. — V. 1374. Coptis - V. 1364. Cordyline - P. 965. Coriaria - Do. 1407. Cornus — Ph. 103. 104. — P. 506. 507. — S. 1120. — A. 1235. 1236. — Do. 1390. — Ca. 1506. 1591. 1592. Coronilla --- P. 386. Corticium — S. 1176. Corylus - Ph. 166, 167, - P. 590. 591. - Ap. 1028. - S. 1141. - Fu. 1459. — P. 900. — Ca. 1532. 1535. 1536. 1537. 1538. 1539. 1563. Corynocarpus -- P. 685. Cotoneaster — Ca. 1493. Cratægus - Ph. 13. 17. - P. 457. -A. 1204. — Ca. 1480. 1492. 1602. Crepis - P. 739. Crocus - P. 944. Crucianella - P. 816. Chionanthus — Ph. 153. 154. — P. 508. | Cruciferæ — P. 801.

Cucumis - P. 880.

Cucurbita — Ph. 287. — P. 878. 879. 881. 884. 885. 886. — V. 1368. 1369.

Cucurbitaceæ - P. 803.

Cupressus - Ap. 1058.

Cycas - C. 2000.

Cydonia — Ph. 10. — P. 443. — Ap. 1046.

Cynanchum — Ph. 284. 285. 286. — P. 924.

Cynara — Ph. 247. — P. 917.

Cypripedium — PhD. 376. Cytisus — Ph. 38. 39. 40. — P. 394.

395. 870. — R. 1428, 1429.

Dædalea - S, 1175.

Dactylis - V. 1386.

Dahlia — P. 736, 793, 1015, — V. 1317, — Ca. 1609.

Daphne — Ph. 135. — P. 474. 681. 682. — A. 1224.

Dasylirion - P. 952, 953.

Datura — Ph. 263. — P. 760. 762.

Daucus — P. 749. — A. 1263.

Delphinium - Ph. 202. - P. 702.

Dentaria - P. 708. - A. 1214.

Desmodium - V. 1340.

Desmoncus - P. 937.

Deutzia — D. 1082.

Dianthus — Ph. 237. — A. 1216. — V. 1337. 1362. — Pa. 1438.

Dicranum - V. 1388.

Digitalis — Ph. 256. — P. 810.

Dioscorea - Ph. 323.

Diospyros — P. 530. — A. 1233. — Ce. 1630.

Diplopappus — P. 657.

Diplotaxis - P. 856.

Dipsacus — P. 785. 793. 795. 802.

Dipterix - P. 397.

Dracæna - Ph. 234. - V. 1372.

Drosera — P. 808.

Drupaceæ — P. 437.

Drymis — S. 1124. — A. 1291.

Echinocactus — P. 818.

Edgeworthia - P. 473.

Elæagnus — Ph. 151. — P. 677.

Ephedra — S. 1149. — V. 1321. Epilobium — P. 798. — A. 1254.

Epimedium — Ph. 211.

Equisetum — P. 1004. 1005. — A. 1289.

Eranthemum - S. 1167.

Erica — P. 499. 502. — Ca. 1589.

Ericaceæ - P. 661.

Eriobotrya — Ph. 11. — A. 1225.

Ervum - P. 804.

Eryngium — P. 750. — A. 1280. — Pr. 1307. — V. 1342.

Erysimum - Ph. 208. - A. 1215.

Erythræa - Ph. 312.

Erythrina — Ph. 44. — P. 819. — Pr. 1313. — V. 1337.

Escallonia - P. 529.

Eucalyptus — Ph. 33. — P. 460. 46:. 648. 649. 650: — Ap. 1045. — D. 1088. — Sc. 1100. — S. 1111. — Ca. 1497.

Eugenia - Do. 1426.

Eupatorium — Ph. 246.

Euphorbia — P. 836. 837. — A. 1269. — Do. 1421. — Ca. 1607.

Euphrasia -- P. 793.

Evonymus — Ph. 68. 69. 70. 71. 72. 73. 214. — P. 416. 417. 418. 419. 623. 630. 670. 671. — A. 1218. 1219. — V. 1329. — Ca. 1602.

Faba - Ph. 231.

Fagus — P. 680. — Ap. 1020. 1030. S. 1154. — A. 1278. — Fu. 1462. 1463. — Ca. 1534. 1549. 1550. 1551. 1552. 1553. 1558. 1559. 1560. 1561. 1563.

Ferula — A. 1263.

Ficus — Ph. 171. — P. 567. 901. — V. 1333. — Pa. 1441. — Cy. 1468. Ca. 1505.

Filago - F. 851.

Fæniculum — P. 747, 793, 794, — A. 1263.

Forsythia - Ph. 139.

Fourcroya - P. 959.

Fragaria - Ph. 219. - P. 855.

Fraxinus — Ph. 106. 179. — P. 477. 478. 479. 516. 669. — S. 911. 912. — Ap. 1025. 1058. — D. 1077. 1078. 1080. — S. 1115. 1117. — A. 1276. — Do. 1392. — Fu. 1448. — Ca. 1562. 1563. 1584. 1612.

Galega - P. 722. - Do, 1423. Galeopsis - Ph. 275. - P. 774. 796. - A. 1256. Galium - P. 793. 815. - V. 1361. -Pa. 1435. 1437. 3arrya — Ph. 121. Jentiana — PhD. 350. — P. 712. 713. - A. 1270. Georgina - C. 1195. Geranium — S. 1166. — V. 1338. Gerardia - V. 1358. Geum - A. 1251. 1272. 3ladiolus — P. 946. 947. — A. 1282. - V. 1374. Glechoma - Ph. 273. Gleditschia — P. 380. 381. 382. 870. Globularia — Ph. 311. Glycines - Ph. 45. Gomphrena - Ph. 295. Gordonia - Ca. 1595. Gossypium - P. 724. - Do. 1424. Graminaceæ - P. 1001. - Cr. 1096. — V. 1380. — Pa. 1443.

Hardenbergia — P. 609.

Haussknechtia — A. 1208.

Hedera — Ph. 100. 101. 102. — P. 511.

512. 513. 623. 671. 672. 677. 869. —

V. 1329. — Ca. 1602.

Hedysarum — P. 720. 854. — A. 1211.

Helianthemum — Ph. 204.

Helianthus — P. 802. — A. 1274. —

V. 1350. 1362.

Helichrysum — P. 793.

Helleborus — Ph. 201. — P. 857.

Hemerocallis — P. 943. — V. 1373.

Heracleum — P. 751. 753. — A. 1258.

1262. — V. 1336.

Gynerium - P. 993.

Heteromeles — Ph. 196. — P. 651. Če. 1625. Hibiscus — Ph. 142. — P. 527. 658. 726. 729. Hippophaë — Ca. 1597. Holcus — Cr. 1096. Hosackia — P. 721. Hoya — P. 619. 620. 621. Humulus — Ph. 293. — P. 793. 827. — Ci. 1293. Hydrangea — Ca. 1503. Hydrocotyle — PhD. 347. Hyoscyamus — P. 793. Hypericum — P. 811. 829. — A. 1212.

Iasione — P. 867. Iasminum — Ph. 110. 111. — P. 480. Iatropha - P. 833. Iberis — Ce. 1633. Ilex — Ph. 127. — P. 628. 629. 630. 631. 632. — S. 1126. — C. 1186. — Ca. 1561. — Ce. 1618. Impatiens — PhD. 346. — V. 1355, 1362. Indigofera — P. 723. Inula — P. 733. Ipomæa — V. 1359. Iris — A. 1272. 1381. — V. 1374. 1378. Isatis — Ci. 1293. Iuglans — Ph. 162, 163, — P. 568, 906. — D. 1087. — S. 1134. — Ca. 1554. 1555. Iuncus — P. 981. 982. Iuniperus — P. 599. 897. — Do. 1404. 1416. — Ca. 1574. 1575.

Kerria — P. 458. — D. 1071. — Do. 1397.
Kœlreuteria — P. 531.
Lactuca — P. 740. 793. — V. 1351.
Lagenaria — P. 882. 883.
Lagerstræmia — P. 547.

Kalmia — Ca. 1602.

Kennedya - Ph. 43.

Lamium — Ph. 272. — P. 779. Lappa — Ph. 242. — P. 730. 731. 732. 796.

Lardizabala — P. 647. Larix — P. 896. 1016. — Ca. 1566. 1567. Laserpitium - Ph. 250. Lathyrus - Ph. 229. 230. - P. 796. 804. 871. - Pa. 1439. Laurus - Ph. 84. 85. 86. - P. 485. 486. 663. 921. — D. 1374. — Pr. 1404. — S. 1628. Lavatera - P. 727. Lecidea - S. 1177. Leguminosæ - P. 613. 614. 715. -V. 1339. Lemna - Ph. 333. Lepidium - P. 717. Liatris - P. 853. Ligustrum — Ph. 107. 108. — P. 580. 691. Lilium - Ph. 322. - A. 1272. Limonia - Ph. 53. - P. 491. Linaria - Ph. 257. - PhD. 357. Linnæa - PhD. 353.

Linociera — Ph. 153.

Linum — P. 797. — Ci. 1293.

Liriodendron — Ph. 158. 159. — P. 532. 674. 918. — A. 1209. — V. 1331.

Do. 1393. — Ce. 1629.

Lobelia — P. 789. 790. 791.

Lonicera — Ph. 90. 91. 92. — P. 403. 405. 406. 407. 408. — A. 1223. — V. 1336. 1389.

Luffa — P. 878.

Luzula — Pr. 1315. Lychnis — PhD. 349. — P. 858. Lycium — Ph. 214. — P. 519. 664. 761. — A. 1238. — Ci. 1293. Lythrum — PhD. 354. — P. 703. 866.

Lunaria - A. 1277.

Maclura — P. 528.

Magnolia — Ph. 130. — PhD. 367. —
P. 423. 523. 630. 686. — V. 1330.
Do. 1407.

Mahania — Ph. 121 122 — P. 627.

Mahonia — Ph. 131. 132. — P. 695. 696. Mallotus — Ph. 193.

Malpighia — P. 688. Malus — A. 1275. — V. 1329. — Do. 1404.

Mammillaria - P. 818. Manioth - Do. 1422. Marchantia - Ph. 343. Margyricarpus - P. 454. Marrubium - P. 773. 793. Martynia - Ph. 260. Matricaria - P. 703. Medicago - Ph. 228. - P. 707. 716. 793. 795. 804. — Pr. 1309. Melampyrum — P. 763. Melandrium - P. 781. Melia — Ph. 155. — P. 520. — V. 1328. Melica — V. 1383. Melilotus - PhD. 363. Menispermum - P. 806. 807. Mercurialis - Ph. 291. - P. 793, -V. 1367. Mespilus - Ph. 9. - P. 455. 645. -A. 1225. 1226. — Ci. 1293. Metrosideros - Ca. 1604. Minuartia - P. 782. Momordica - P. 878. Monocotyledoneæ - S. 1172. Moræa - P. 945. Morus - Ph. 179. - P. 563. 564. 565. - Ap. 1047. - As. 1094. - Do. 1403. - Ca. 1504. Mulgedium — A. 1213. Musa - P. 971. 972. Myrica - Ph. 34. Myricaria - Ph. 126. Myrtus - Ph. 32. - P. 647.

Malva - Ph. 214. - P. 801.

Napoleona — Ph. 194.

Nasturtium — Ph. 209.

Nectandra — Ph. 195.

Negundo — Ph. 58.

Nerium — Ph. 136. — P. 496. 497.

Nesæa — Ph. 314.

Nicotiana — Ph. 264. 265.

Nitraria — P. 505.

Nuphar — P. 863.

Nymphæa — Ph. 310.

Nyssa — Ph. 191. — P. 905. — A. 1204.

Œnothera - P. 799. 800. - S. 1163. Olea - Ph. 105. - P. 667. 928. 929. S. 1116. — Ca. 1585. 1600. — Ce. 1623. Oncidium - Ph. 326. - P. 973. Onobrychis - P. 719. Onoclea - V. 1387. Opuntia - Ph. 137. - P. 817. - Ap. 1037. Orchideæ - P. 974. Ornithogalum - P. 942. - V. 1374. Orobus - Ph. 226. 227. - A. 1268. Orontium - Ph. 327. Osmunda - V. 1381. Othonna - P. 852. Oxalis - Ph. 213. - V. 1365.

Pæonia — Ph. 200. — P. 703. — A. 1252. Palmaceæ - PhD. 375. - P. 935. Paliurus - P. 911. Pandanus — P. 939. — Ce. 1632. Panax - A. 1259. Papaver - P. 785. 916. Paris — PhD. 379. Parkinsonia — P. 383. Pastinaca - P. 801. Passiflora — P. 930. Pavia - Ph. 2. Paulownia — Ph. 138. — P. 544. 545. Pedicularis — P. 772. 793. Persica — Ph. 27. — P. 434. 435. 436. - Ca. 1494. 1495. Petunia - Ph. 261. Peltigera - Ph. 344. Petroselinum — P. 801. — A, 1272. Phaseolus — Ph. 224. 225. — P. 717. 718. - V. 1341. Pharbitis - Ph. 278. Photinia - Ph. 18. 19. 20. Phormium — Ph. 339. — P. 990. 991. Phillyrea — Ph. 112. 113. 114. 115. — P. 666. — A. 1232.

Philadelphus - Ph. 90. - P. 414.

Phleum - P. 793. - V. 1386.

Philibertia — Ph. 317.

Phlox — P. 769. 801. — A. 1272. — V. 1336. Phlomis - P. 771. Phytolacca — Ph. 316. — P. 793. 823. - V. 1336. Physalis - Ph. 262. Phragmites - P. 983. 984. 985. 986. — D. 1089. — Pa. 1444. Pinus - P. 426. 428. 593. 594. 596. 597. 598. 600. 603. 604. 890. 891. 892. 895. — Ap. 1018. 1019. 1020. 1021. 1022. 1026. — D. 1090. — S. 1142. 1144. 1146. 1147. 1148. 1150. - C. 1194. - Pr. 1310. - Do. 1402. 1417. 1419. — Pa. 1445. — Fu. 1451. 1452. 1453. — Ca. 1566. 1571. 1572. 1599. Pirus — Ph. 7, 22, 23, 24, — P. 440, 441. 442. 907. 908. - Ap. 1023. 1044. 1065. — D. 1084. — S. 1108. 1109. - A. 1204. 1105. 1228. 1229. - V. 1329. — Ca. 1480. 1481. 1482. 1558. 1594. 1605. Pisum — Ph. 233. Pirola - PhD. 366. Pittosporum - P. 425. Platanus — Ph. 172. — P. 413. 554. 555. 556. 557. 558. 675. — D. 1083. — Fu. 1455. — Ca. 1556. 1557. Plantago — Ph. 290. — P. 774. 805. Poa — P. 998. — V. 1382, 1385. Podocarpus - Do. 1420. Podophyllum - Ph. 305. Poinsettia - P. 526. Polygonum - Ph. 300. - PhD. 364. — P. 797. — A. 1273. — V. 1356. Polygonatum - Ph. 324. - P. 960. 961. - V. 1379. Polygala - P. 509. Populus — Ph. 175, 176, 177, 178, 179. 180. — PhD. 370. — P. 573. 574. 575. 679. — Ap. 1058. — D. 1083. 1085. 1086. — S. 1103. 1127. 1132. A. 1206. 1217. 1245. 1246. — Do. 1390. 1395. 1396. — V. 1331. — Ca. 1518. 1519. 1527. 1559. 1560. 1563.

Portulaca - Ph. 289. - P. 780.

Potentilla — Ph. 217. 218.

Primula — Ph. 308.

Pritchardia — P. 936.

Privà — P. 765.

Prunella — P. 778. — A. 1257.

Prunus — Ph. 4. 5. 6. 7. 8. 14. 15.

16. 90. 161. — P. 433. 635. 636. 637.

— Ap. 1070. — D. 1074. 1076. —

S. 1103. 1104. 1105. 1106. 1110: 1154.

1155. 1157. — A. 1201. 1204. — V.

1334. — Do. 1398. — Ca. 148N. 1483.

1484. 1485. 1486. 1487. 1559. 1560.

1561. 1603.

Potamogeton - P. 948.

Psoralea — P. 612.
Pteris — P. 1003. — S. 1178.
Pterocarya — Ph. 164.
Pulmonaria — Ph. 307.
Punica — Ph. 21. — P. 459. — D. 1082.
— A. 1230. — Ca. 1496
Pyxidium — Ph. 297.

Quamoclit — Ph. 277.

Quercus — Ph. 181. 182. 183. 184. 185. 186. 187. 188. — P. 569. 570. 571. 572. 623. 639. 640. 641. 642. 643. 644. 645. 646. 671. 899. 900. — Ap. 1027. 1041. 1051. 1058. 1068. — D. 1074. 1079. 1083. 1084. — S. 1129. 1130. 1136. 1137. 1138. 1139. 1143. 1183. — C. 1187. 1188. — A. 1210. — St. 1303. — Do. 1409. 1410. 1411. — Cy. 1471. 1472. 1473. 1480. — Pa. 1445. 1454. — Ca. 1534. 1539. 1540. 1541. 1542. 1544. 1545. 1546. 1548. 1560. 1562. 1563. 1602. 1615. — Ce. 1620.

Ranunculus — Ph. 197. 198. — P. 797.

Rhamnus — Ph. 62. 63. 64. 65. 66.

179. — P. 415. 510. — S. 1153. 1154.

— A. 1217. 1220. — Ci. 1293. —

Do. 1403. — Fu. 1447. — Ca. 1558.

1560. 1586. 1587. — Ce. 1624.

Rhinanthus — P. 751. 925.

Rhipogonum — P. 931.

Rhipsalis — P. 819.

Rhododendron — Ph. 116, 117. — Ap. 1031. — D. 1073.

Rhus — Ph. 78. 79. 80. 81. — P. 503. 504. — Ap. 1043. — S. 1121. 1122. A. 1237. — Cy. 1469. — Ca. 1501.

Ribes — Ph. 82. 83. — P. 517. 518. — D. 1074. — A. 1239. — V. 1326. Do. 1391. — F. 1434. — Fu. 1450. — Ca. 1537. 1560. 1590.

Ricinus - P. 785, 834, 835.

Robinia — Ph. 37. — P. 398. 399. 400. 401. 402. 587. 611. 870. 874. — Ap. 1041. — D. 1084. — S. 1156. — Ca. 1578. 1579. 1580. 1581.

Rosa — Ph. 31. — P. 448. 449. 450. 451. 452. 453. 580. 638. — D. 1074. — A. 1207. — Fu. 1449. — Ca. 1476. 1477. 1478. 1560. 1561. 1596. 1598. — Ce. 1631.

Rosmarinus — P. 546. Rubia — P. 814. 868.

Rubiaceæ - P. 869.

Rubus — Ph. 28, 29, 30, — P. 444, 445, 446, 447, 793, — A. 1203, —
V. 1317, 1319, — Ca. 1474, 1475 1563, 1601.

Ruellia — V. 1357.

Rumex — Ph. 301. 302. — PhD. 355. — P. 785. 828. Ruscus — Ph. 319. — P. 968. 969.

Sabal — P. 938. — C. 1199.

Saccharum - P. 994.

Sagittaria — PhD. 373.

Salicaria — P. 793.

Salix — P. 576. 577. 578. 579. — Ap. 1028. 1052. — D. 1075. — S. 1128. 1130. 1131. 1140. — A. 1243. 1244. — V. 1327. 1329. 1336. — Do. 1390. 1404. — Fu. 1458. — Ca. 1520. 1521. 1522. 1523. 1524. 1525. 1526. 1527. 1528. 1529. 1530. 1531. 1532. 1533. 1558. 1560. — Ce. 1619.

Salsola — P. 825. — Ca. 1608.

Sambucus — Ph. 94. 95. 313. — P. 410. 411. 412. 413. 785. 786. 787. 788. 793. 797. — Ap. 1042. — D.



1072. — A. 1272. — Pr. 1312. — Do. 1407. Saponaria - Ph. 235. - P. 783. 859. Sarothamnus — P. 391. — Ca. 1582. Sarracenia - Pe. 1299. Satureja - P. 777. Saxifraga - P. 809. 864. Scabiosa - P. 826. Schinus - Ph. 143. Schoberia — P. 793. Seilla - V. 1374. Scirpus - Ph. 341. - Ph. 978. Scrophularia - Ph. 253. 254. 255. -P. 766, 794, 802. Secale - P. 1000. Sedum — P. 811. 822. — Pa. 1436. Senecio - Ph. 243. 244. Setaria - Ph. 342. Sherardia - Pa. 1437. Silene - Ph. 236. - P. 804. Silphium - V. 1354. Sisymbrium — PhD. 352. Smilax — PhD. 374. — P. 954. 955. — Pe. 1300. — V. 1329. 1331. Smyrnium - P. 752. Solanum — Ph. 266. 267. 268. 269. 270. — P. 756. 757. 758. 759. 801. 920. - S. 1165. - Pr. 1306. - V. 1336. 1337. 1343. 1344. 1345. 1346. Solidago - P. 741. 793. 802. - A. 1266. — V: 1352. Sonchus - Ph. 240. Sophora — P. 389. — Do. 1403. Sorbus — Ph. 25. 26. — P. 633. 634. - Ap. 1028. - S. 1107. - Do. 1399. 1400. 1401. 1404. — Ca. 1479. 1480. 1481. — Ca. 1562. Sorghum — Ph. 338. - PhD. 377. Sparganium - A. 1281. Spartium - P. 388. - Ap. 1032. Spiræa - Ph. 220. 221. 222. 223. -P. 438. 439. 792. — A. 1262. — Ca. 1491. Stanhopea - Pr. 1305. Stapelia - P. 820. Staphylea - P. 525. - V. 1320. Statice — P. 865.

Stellaria — A. 1250. — Pa. 1438. Sterculia — Ph. 149. — P. 521. Stigmaphyllum — Ph. 192. Strelitzia — P. 970. Symphoricarpos — Ph. 93. — P. 404. Syringa — Ph. 109. — P. 442. 481. 482. 483. 484. 668. 793. — A. 1217. — Do. 1403. 1405. — Ca. 1583.

Tamarix — P. 548. 549. 550. 551. 552. 553. Tamus - Ph. 320. - V. 1377. Taxus — P. 432. 606. 607. — Ca. 1576. Tecoma — Ph. 144. 145. 146. — P. 536. Teucrium - Ph. 271, 274, Thalictrum — Ph. 199. — P. 704. Thermopsis - Ph. 318. Thuja — P. 605. 891. — Ca. 1577. Tilia - Ph. 141. - P. 542. 543. -Ap. 1033. — S. 1156. 1157. — A. 1217. — V. 1318. — Do. 1403. R. 1427. — ca. 1593. 1594. Tormentilla - Ph. 216. Tremella — S. 1173. Trianospermum — Ph. 288. Trientalis - PhD. 362. Trillium - V. 1371. Triglochin — A. 1283. — V. 1374. Trifolium — A. 1267. Triticum — P. 999. 1000. Tropæolum - Ph. 212, - A. 1272. Tulostoma - A. 1288. Tussilago — Ph. 245. — A. 1265. Typha - Ph. 336. 337. - P. 977.

Ulex — P. 387.

Ulmus — Ph. 173. 174. — P. 586. 587. 588. — Ap. 1054. 1055. 1056. 1058. — A. 1247. 1248. 1249. — St. 1302. — Do. 1406. — Fu. 1456. — Ca. 1516. 1517. 1563.

Umbelliferæ — P. 748. 754. 755. — A. 1263. — V. 1349.

Urtica — Ph. 292. — P. 793. 794. 801.

Repertorium

802. S32. — S. 1170. — Pr. 1311. — V. 1346.

Uvaria - Ph. 325.

Vaccinium — P. 498. 659. — Do. 1418. — Ca. 1612. — Ce. 1627.

Valeriana — P. 693. — V. 1336. Veratrum — Ph. 321.

Verbascum — Ph. 259. — P. 767. 770. 793.

Verbena — Ph. 258. — P. 793. 829.
Veronica — Ph. 253. — PhD. 356. — P. 768.

Viburnum — Ph. 74, 75, 76, 77, 90, — P. 514, 515, 516, 532, 693, — D. 1077, — A. 1217, 1221, 1222,

Vicia — Ph. 232. — P. 804.

Vinea — Ph. 306. — P. 671. 824. 862. — Ca. 1602.

Viola — Ph. 203. — P. 861. — A. 1271. — Ci. 1293. — V. 1371.

Virgilia - A. 1240.

Volkameria - P. 522.

1362.

Viscum - P. 673.

Vitis - Ph. 96. 97. 98. 99. - P. 462. 463. 464. 465. 467. 468. 469. 470. 471. 652. 653. 654. 655. 656. 887. 888. 889. - Ap. 1048. - D. 1074. - S. 1119. - Ci. 1293. - V. 1317. - Ca. 1498. 1499. 1500. 1614.

Yucca — P. 949. 950. 951. — V. 1337.

Weigelia — Pli. 440. — P. 409, Wigandia — Ph. 315. Wistaria — Ph. 46. — P. 392, 608.

Zea — A. 1284: 1286. 1290. — V. 1380. Zizyphus — Ph. 67.



Sect. 2. Phæosporæ Sacc.

Sporulæ globosæ, ovoideæ vel oblongæ continuæ, olivaceæ vel fuligineæ.

Clavis analytica generum.

& Simplices.

I. Perithecia glabra.

* Perithecia sessilia, subsphæroidea.

Spheropsis. Perithecia globoso-papillata, majuscula, subcarbonacea; sporulæ

longe stipitatæ, oblongæ, majusculæ.

Coniothyrium. Perithecia globulosa vel depressa, minuscula, typice submembranacea; sporulæ brevissime vel obsolete stipitatæ, sphæroideæ vel ovoideæ, minutæ.

Harknessia. Perithecia globoso-conica, tenuiter et pseudo-parenchymatica, apice albo-lacerata; sporulæ longe stipitatæ, ellipsoideo-oblongæ, dein

in massam atram expulsæ.

Hypocenia. Perithecia obtusissima, erumpentia, loculum semiorbicularem distinctum includentia; sporulæ fusoideæ, pallide brunneæ.

** Perithecia stipitato-clavata.

Levieuxia. Perithecia carbonacea, rigida, demum vertice rimose diffracta. II. Perithecia setosa.

Chætomella. Perithecia subastoma, superficialia, setosa; sporulæ stipitatæ, tereti-fusoideæ, fuligineæ, subinde hyalinæ. (Cfr. Pyrenochæta inter Hyalosporas).

§§ Compositæ vel cæspitosæ.

Haplosporella. Perithecia in cæspites erumpentes dense congesta.

Weinmannodora. Stroma hemisphæricum, carbonaceum, liberum, intus circinato-locellatum; sporulæ majusculæ.

Cytoplea. Stroma pulvinatum, dein confluendo effuso-crustaceum, intus monostiche locellatum; sporulæ minutæ, initio catenulatæ, paraphysatæ.

SPHÆROPSIS Lév. in Demid. Voy. p. 112 emend., Sacc. Mich. II. p. 115 (Etym. a Sphæria, ad quam habitu accedit), Podosporium Bon., non Schwein. Macroplodia West. V. Not. p. 19 note 2. Aplosporella Speg. F. Arg. Pug. IV. n. 299, p. p. - Perithecia subcutaneo-erumpentia, globosa, papillata, membranaceo-carbonacea, nigra. Sporulæ ovoideæ vel oblongæ, continuæ, fuligineæ, basidiis bacillaribus typice suffultæ. — Est, meo sensu, Diplodia sporulis continuis fuligineis instructa.

A) Eu-Sphæropsis.

Sporulæ mediocres, muco non obvolutæ.

I. In Dicotyledoneis lignosis.

1. Sphæropsis ovalis (Cooke et Harkn.) Sacc., Macroplodia ovalis 1635 Cooke et Harkn. in Grevillea 1881, p. 82. — Peritheciis atris, globosis, semi-liberis, in plagas elongatas collectis; sporulis pallido-fuscis, ovalibus, continuis, 5 = 4.

Hab. in ramis Hymeneæ in California Amer. bor.

2. Sphæropsis Absus Cooke in Grevillea. — Sparsa, erumpens; per 1636 ritheciis subglobosis, atris, demum apice prominulis; sporulis late ellipticis, demum brunneis, 20 = 1,5.

Hab. in ramis Cassiæ Absus, Madras Ind. orient.

3. Sphæropsis gleditschiæcola Cooke in Grevill. — Peritheciis con- 1637 fluentibus in pustulas erumpentibus, epidermide cinctis; sporulis ellipticis, brunneis, 18 = 8.

Hab. in ramis Gleditschiæ, Aiken Carolin. austr.

4. Sphæropsis Saccardiana (Speg.) Sacc. Diplodia Saccardiana Speg. 1638 Nov. Add. n. 168 et Mich. II. p. 270. — Peritheciis globosis, gregariis, sæpius lineariter dispositis, primo epidermide tectis, dein liberis, minutis, ½-½ mill. diam., atris, subcarbonaceis, ostiolo parvulo impresso pertusis; sporulis ellipticis vel ovoideis, quandoque inæquilateralibus, utrinque obtusiusculis, continuis, pallide fuligineo-olivaceis, primo levibus, dein longitudinaliter 1-striatis, atque eadem stria dehiscentibus, 12-14 ≈ 5-6.

Hab. in ramulis emortuis dejectis Sarothamni scoparii in

alpinis M. Borgà et M. Salta Cimolais, Cadore, Carnia.

5. Sphæropsis Parkinsoniæ (Speg.) Sacc. Diplodia Porkinsoniæ Speg. 1639 F. Arg. Pug. I. p. 190. — Peritheciis lenticularibus, ½3-½4 mill. diam., gregariis, primo tectis, dein erumpentibus, epidermide stellatim fissa cinctis, contextu membranaceo, parenchymatico, olivaceo-fuligineo, matrice sæpius dealbata insidentibus; sporulis elliptico-cylindraceis vel subcylindraceo-ovoideis, utrinque obtuse rotundatis, continuis, rectis vel vix curvulis, opacis, fuligineis, 21-24 × S-10.

Hab. in ramulis emortuis Parkinsoniæ aculeatæ, Barracas del Sur. Argent. Amer. austr.

6. Sphæropsis tephrospora B. et C. North Am. Fungi n. 409bis — 1640 Peritheciis sub cortice nigrificata tectis, sero rima longitudinali Sphærioideæ, Phæosporæ, Sphæropsis.

293

emergentibus; sporulis brunneis ellipticis vel oblongo-ellipticis uninucleatis, $6-7 \approx 3-3,5$.

Hab. in ramis Magnoliæ in Carolina infer. Amer. bor. — «An Coniothyrium?»

7. Sphæropsis Maertensii (West. Bon.) Sacc. Podosporium Maerten- 1641 sii (West.) Bon. Abhandl. I. p. 46. Epidochium Maertensii West. in Rabenh. F. E. n. 433. — Peritheciis depressis lentiformibus, epidermide tectis, nigris, 1/4 mill. diam., siccis concavo-depressis; ostiolo simplici pertuso; sporulis longis, utrinque acuminatis, atris, longe pedicellatis e fundo perithecii assurgentibus; basidiis longioribus intermixtis.

Hab. in ramis deciduis Tiliæ in Belgio. — Sec. Kickx Fl. Fl. II. p. 181 ad Melanconium Desmazieri pertineret hæc species; sed descriptio Bonordemi differre videtur.

8. Sphæropsis demersa (Bon.) Sacc. Podosporium demersum Bon. 1642 Handb. p. 227. — Peritheciis globosis duriusculis, nigris, innatoerumpentibus ostiolatis; sporulis elongato-ovoideis, majusculis, dilute fuscis; basidiis elongatis.

Hab. in ramulis corticatis Pruni spinosæ et Cratægi in Germania.

9. Sphæropsis Peckii Sacc. Sphæropsis anomala Peck Rep. of the St. 1643 M. Rotan. 1872, p. 86, nec B. et C. — Peritheciis cæspitosis, nigris, in cortice interiore nidulantibus, rimaque transversali erumpentibus; ostiolo papillato; sporulis oblongis, 20-25 \(\nu\). longis.

Hab. in ramis emortuis Cerasorum, Albany Amer. bor.

10. Sphæropsis cerasina Peck 33 Rep. St. Mus. 24. — Peritheciis 1644 numerosis, minutis, cortice nidulantibus, epidermide elevata, dein pertusa cinctis, nigris, sæpe apice cinereis; sporulis initio hyalinis, dein coloratis, elliptico-obovatis vel oblongis, 20-25 μ. longis; sporophoris brevibus.

Hab. in ramis emortuis Pruni virginianæ in Amer. bor.
11. Sphæropsis cinerea (C. et E.) Sacc. Macroplodia cinerea C. et 1645
Ell. in Grevill. — Peritheciis discelleformibus (obsoletis); sporulis ellipsoideis, continuis, fuligineis, 20 μ. long.; basidiis hyalinis.

Hab. in ligno decorticato Piri Mali, New Jersey Amer. bor.

12. Sphæropsis Mali (West.) Sacc. Macroplodia Mali Westd. Crypt. 1646
d. l. stat. nat. p. 369. Lamb. Fl. myc. Belg. III. p. 66. — Peritheciis sparsis, immersis, prominulis, nigris, membranaceis; ostiolo papillato epidermidem elevante et perforante; sporulis ovoideis, fuligineis, dein madore exsilientibus matricemque fædantibus.

Hab. in ramulis Piri Mali in Belgio, Italia, Austria.

13. Sphæropsis Malorum Peck Ann. Rep. 1881. Thirty-Fourth. p. 1647 36, tab. 4. fig. 16-21. — Peritheciis innatis erumpentibus, epidermide fissa cinctis, conico-applanatis, vertice pertusis; sporulis oblongis, basidiis æquilongis suffultis, 25 ≈ 10-11, fuligineis.

Hab. in epicarpio Piri Mali in Amer. bor. — Sphæropsis Malorum Berk sporulis chlorino-hyalinis utitur; hinc ad Pho-

mam relata est; an tamen eadem species immatura?

14. Sphæropsis rubicola C. et Ell. in Grevillea. — Subgregaria, erum- 1648 pens; peritheciis atris, primum tectis, demum epidermidem findentibus; sporulis elongato-ellipticis, brunneis, 25-30 ≈ 10.

Hab. in sarmentis Rubi idæi, R. nigræ, New Jersey Ame-

ricæ borealis.

15. Sphæropsis Rosarum C. et Ell. in Grevillea. — Subgregaria vel 1649 sparsa; peritheciis tectis, epidermidem findentibus; sporulis ellipticis, uninucleatis, brunneis, 25 ≈ 10.

Hab. in ramis Rosarum, New Jersey Amer. bor.

16. Sphæropsis Cydoniæ C. et Ell. in Grevillea. — Epiphylla; pe- 1650 ritheciis immersis, punctiformibus, in macula rubro-brunnea insidentibus; sporulis ellipticis, brunneis, 20-22 ≥ 9.

Hab. in foliis Cydoniæ, New Jersey Amer. bor.

L7. Sphæropsis Clintonii Peck Rep. on the St. Mus. N. J. — Peri- 1651 theciis minutis, sparsis, innatis, nigris; sporulis ellipticis vel oblongo-ellipticis, coloratis, 14-17 μ. longis.

Hab. in ligno decorticato Aceris, Buffalo America borealis

(CLINTON).

18. Sphæropsis sociata Lev. Ann. Sc. Nat. 1846, p. 295. — Peri- 1652 theciis cæspitosis cohærentibus, erumpentibus, globosis, rugulosis, nigris, receptaculo atro corticali communi impositis; ostiolis papillatis vel conicis deciduis; sporulis ovato-ellipticis, magnis, subcoloratis, 1-nucleatis.

Hab. ad corticem Ailanthi glandulosæ in horto botanico parisiensi.

19. Sphæropsis celastrina Peck 33 Rep. St. Mus. p. 24. — Peritheciis numerosis, minutis, in cortice immersis, epidermide elevata, dein fissa cinctis; sporulis oblongis vel oblongo-ovatis, coloratis, 20-25 μ. longis.

Hab. in ramis Celastri scandentis, Chartton Amer. bor.
20. Sphæropsis propullulans (Schw.) Peck Rep. on the St. Mus. N. Y. 1654
Sphæria propullulans Schw. Syn. Am. n. 1447 Cfr. Syll. II. p.

393. — Atra, cæspitosa; peritheciis majusculis atrofarctis, prominulis in superficie subdepressa, coronatis ostiolis papillaribus centralibus; cæspitulis superne quasi punctato-rugosis.

Hab. frequens in surculis emortuis Celastri, Bethlehem et Greenbush Amer. bor.

21. Sphæropsis Novæ-Hollandiæ (Speg.) Sacc. Diplodia Novæ-Hol- 1655 landiæ Speg. F. Arg. Pug. I. p. 190. — Peritheciis amphigenis, sparsis, parenchymati foliorum immersis, tectis, lenticulari-globosis, $\frac{1}{3}$ - $\frac{1}{4}$ μ . diam., atris, ostiolo parvulo protuberante donatis; sporulis ellipticis vel ovoideis, continuis, fuligineis, $26-30 \approx 10-12$.

Hab. ad folia dejecta putrescentia Eucalypti Globuli ubi-

que vulgatissima.

22. Sphæropsis hedericola (Speg.) Sacc. Diplodia hedericola Speg. 1656 Argent. Pug. III n. 130. — Peritheciis globoso-lenticularibus, coriaceo-membranaceis, atris, $\frac{1}{4}-\frac{1}{3}$ mill. diam.; sporulis ellipticis vel ovoideis, quandoque inæquilateralibus, utrinque obtuse rotundatis, $18-20 \approx 9-10$, fuligineis, continuis.

Hab. in foliis dejectis Hederæ Helicis in horto del Colegio Argentino Buenos-aires in America australi.

23. Sphæropsis fibriseda C. et E. in Grevillea. — Peritheciis gre- 1657 gariis, inter fibras ligneas immersis; ostiolis breve emergentibus; sporulis longe ellipticis, brunneis, 25-30 = 10.

Hab. in ramis decorticatis Rhois venenatæ et Nyssæ, New

Jersey in Amer. bor.

24. Sphæropsis Sumachi (Schw.) C. et E. Grev. V. p. 31, t. 75, f. 11, 1658 Sphæria Sumachi Schw. n. 1425 et Sacc. Syll. II. pag. 189. — Cæspitosa; peritheciis subconfluentibus in stromate nigro subobliterato; cæspitulis difformibus ex epidermide prorumpentibus; junior peritheciis crusta connatis, adulta fere peritheciis liberis; ostiolis majusculis difformibus; sporulis ellipticis, brunneis globoso-nucleatis, 20-25 = 12.

Hab. in ramis Rhois glabræ, Bethlehem Amer. bor.

25. Sphæropsis Visci (Sollm.) Sacc. Mich. II. p. 115, Ceuthospora 1659 Visci Sollm. Hedw: II. n. 19, t. XIII. — Peritheciis gregariis, globoso-depressis, atris, indistincte ostiolatis, subcutaneo-erumpentibus; sporulis obovatis magnis, 40-50 = 25-30, prorsus continuis, olivaceo-fuligineis, basidiis filiformibus fultis.

Hab. in foliis ramulisque Visci albi in Germania, Gallia et

Helvetia.

26. Sphæropsis aquifolia (West.) Sacc. Macroplodia aquifolia West 1860

V. Not. p. 19. — Peritheciis amphigenis, sparsis, immersis, prominulis; ostiolo papillato epidermidem lacerato-perforante; sporulis ovoideo-ellipsoideis, continuis, fuligineis, majusculis.

Hab. in foliis Ilicis Aquifolii prope Mons in Belgio (P. DUMONT).

27. Sphæropsis Citri (Gar. et Catt.) Penz. Mich. II. p. 442, Sphæro- 1661 nema Citri Garov. et Catt. in Rendic. R. Istit. Lomb., Ser. II. vol. 8, p. 119, Catt. Mic. Agrum. p. 11. — Peritheciis sparsis, solitariis, raro congregatis confluentibusque, membranaceis, subrotundomammillatis, opacis, aterrimis, 500 μ. diam., ostiolatis; ostiolo mammoso; sporulis ellipticis, lutescentibus, centro nucleo oleoso farctis, 40 μ. longis; basidiis obsoletis.

Hab. in cortice et in ligno denudato fracido Citrorum, Ca-

serta prope Neapolim Ital. austr. (A. CATTANEO).

28. Sphæropsis Henriquesii Thum. Contrib. ad Flor. mycol. Lusitan., 1662 Ser. III, n. 320, p. 39. — Peritheciis conicis, elevatis prominentibus, nitido-atris, simplicibus; basidiis longis, fasciculatis, curvatis, articulatis, achrois; sporulis ovoideis, continuis, utrinque acutatis, eguttulatis, olivaceo-griseis, 10-12 ≈ 6-7.

Hab. in ramulis emortuis Citri Aurantii, Felgueiras in Lu-

sitania (Henriques).

29. Sphæropsis? atra (Pr.) Sacc. Gyratylium atrum Pr. Hoyersw. 1663 n. 335. — Peritheciis membranaceis sub epidermide innatis, planis, latis, atris; sporulis erumpentibus, muco involutis subovatis, numerosissimis, semipellucidis, saturate-fuscis; nucleo firmo et guttulis oleosis repleto, basidiis stipitiformibus aggregatis.

Hab. ad ramulos Corni sanguineæ, Hoyerswerda.

30. Sphæropsis Sassafras C. et E. in Grevillea. — Peritheciis pa- 1664 pillæformibus, epidermide cinctis; sporulis elongato-ellipticis, brunneis, 30-35 ≈ 12.

Hab. in cortice Lauri Sassafras, New Jersey Amer. bor.

31. Sphæropsis seriata Peck 33 Rep. St. Mus. 24. — Peritheciis 1665 solidis, aggregatis vel subcæspitosis, in cortice inæquali longe seriatis, nigris; sporulis initio pallidis, dein coloratis, elliptico-obovatis vel oblongis, 20-25 μ. longis.

Hab. in cortice ramorum Sassafras officinalis. Center America borealis.

32. Sphæropsis fabæformis (P. et T.) Sacc. Diplodia fabæformis 1666
Pass. et Thum. Pilze des Weinstockes Wien 1878, pag. 141. —
Peritheciis prominulis, semiglobosis, epidermide cinctis, primo im-



mersis, tectis, mediis, subsulcatis, gregariis, irregulariter dispositis, atris; sporulis ellipsoideis vel plerumque fabæformibus, utrinque rotundatis, medio uni-nucleatis, non septatis, unilateraliter inflexis, fuscis, $20 \approx 11-13$.

Hab. in sarmentis emortuis Vitis viniferæ, Parma Italiæ (PASSERINI).

33. Sphæropsis Punctum C. et Ell. in Grevillea t. 96. f. 27. — Pe- 1667 ritheciis sparsis, minutis, epidermide tectis, globosis; sporulis ellipticis, brunneis, 18-25 ≈ 8.

Hab. in ramis Loniceræ in Pensylvania Americæ borealis

(W. C. STEVENSON).

34. Sphæropsis Wilsoni Clinton in Peck Rep. on the St. Mus. New 1668 York. — Peritheciis minutis, punctiformibus leniter prominulis, epidermide dein longitudinaliter fissa cinctis, nigris; sporulis oblongo-ellipticis, coloratis, 20-22 \(\rho\). longis.

Hab. in sarmentis Loniceræ flavæ, Buffalo Americæ bo-

realis (CLINTON).

35. Sphæropsis Sambuci Peck Rep. on the St. Mus. N. Y. — Pe-1669 ritheciis subglobosis, sparsis vel subcæspitosis, prominulis, erumpentibus, epidermide fissa cinctis, nigris; sporulis oblongis, coloratis, 15-20 µ. longis.

Hab. in ramis Sambuci canadensis, North Greenbush America borealis.

36. Sphæropsis sambucina (Cooke) Sacc. Macroplodia sambucina 1670 Cooke in Grevillea. — Gregaria, atra, erumpens; peritheciis submembranaceis, papillatis; sporulis subglobosis, brunneis, 10 = 8.

Hab. in ramis Sambuci, Sierra Nevada Amer. bor.

37. Sphæropsis Aguirrei (Speg.) Sacc. Haplosporella Aguirrei Speg. 1671 Fung. Arg. pug. III. p. 34. — Peritheciis sparsis, subepidermicis, hemisphærico-conicis, parvulis, $\frac{1}{6}-\frac{1}{5}$ mill. diam., ostiolo papillato, minuto, exserto donatis, atris, carbonaceis; sporulis ellipticis vel ovoideis, utrinque obtusissime rotundatis, $20 \approx 8-10$, intense fuligineis, in sterigmatibus conicis, $10-15 \approx 5$, hyalinis, acrogenis.

Hab. in ramulis emortuis Sambuci australis in sepibus

prope San Martin Reip. Argentinæ.

38. Sphæropsis Arctostaphyli (Vize) Sacc. Macroplodia Arctosta. 1672 phyli Vize in Grevillea V. p. 109. — Epiphylla, sparsa; peritheciis emergentibus, globosis, atris; sporulis anguste ellipticis, brunneis, 8-12 = 5.

Hab. in foliis Arctostaphyli glauci in California.



39. Sphæropsis asterina (Cooke et Harkn.) Sacc. Macroplodia aste1673
rina Cooke et Harkn. in Grev. 1881, p. 82. — Hypophylla; maculis radiato-fibrosis, suborbicularibus, atris; peritheciis subglobosis, aggregatis, inter hyphas nidulantibus; sporulis ovalibus, fuscis, 6 = 3,5.

Hab. in foliis Arbuti Menziesii in California Amer. bor.

40. Sphæropsis clethricola C. et Ellis in Grevillea. — Erumpens, sub- 1674 seriata; peritheciis subglobosis, atris, corticem rimoso-findentibus; sporulis ellipticis, brunneis, $22 \approx 10$.

Hab. in ramis Clethræ, New Jersey Amer. bor.

Sphæropsis Diospyri B. et Br. F. of Ceyl. n. 790. — Nitida, con- 1675 gesta, incarcerata, epidermidem elevans; sporulis magnis, 25 μ. longis, paraphysibus longis.

Hab. in fructibus Diospyri embryopteris, Peradeniya,

Ceylon.

42. Sphæropsis Syringæ (Fr.) Peck et C. Rep. on the St. Mus. New 1876 York. Sphæria (Hendersonia) Syringæ Curr. Fructif. simpl. Sph. p. 329, cum icone, Sphæria Syringæ Fr. Scl. Suec. n. 233 et Syst. myc. p. 492. — Gregaria, suberumpens; peritheciis subellipticis depressis, rugulosis, nigris, ostiolo subtili; sporulis brunneis, oblongis, 20-24 ≈ 10-11.

Hab. in ramis emortuis Syringæ in Suecia et in America boreali.

43. Sphæropsis biformis Peck Rep. on the St. Mus. N. Y. — Pe- 1677 ritheciis sparsis, erumpentibus, aliis minutis vix epidermidem perforantibus, aliis majoribus eam late findentibus; sporulis variis, obovatis, ellipticis vel oblongis, subinde curvatis, coloratis, 15-25 μ. longis.

Hab. in ramis Fraxini americanæ, Albany Amer. bor.

44. Sphæropsis phomatella Peck 33 Rep. St. Mus. p. 24. — Peri- 1678 theciis numerosis, minutis, maculis indeterminatis pallidis insidentibus, epidermide dein fissa cinctis, nigris; sporulis oblongis, initio hyalinis, dein coloratis, 20-30 μ. longis; sporophoris brevibus

Hab. in ramulis emortuis Fraxini americanæ, West Troy Americæ borealis.

45. Sphæropsis pensylvanica B. et C. North Am. Fung. n. 411^{bis}. — 1679 Peritheciis papilliformibus, epidermide cinctis; sporulis oblongoobovatis hyalinis (dein fuscis?), 25 μ. longis.

Hab. in ramis Fraxini et, ut videtur, Alni, Buffalo et in Pensylvania Amer. bor. (MICHENER).

46. **Sphæropsis pericarpii** Peck 25 Rep. p. 85. — Peritheciis minu- 1680 tis, leniter elevatis, hemisphæricis, epidermide tectis, dein vertice emergentibus; sporulis coloratis, 22 μ. longis.

Hab. in pericarpio Caryæ, Albany Amer. bor.

47. Sphæropsis Caryæ C. et Ell. in Grevillea V. p. 52. — Perithe- 1681 ciis seriatis, subtectis, demum erumpentibus; sporulis ellipticis, brunneis, 25 ≈ 10-12.

Hab. in ramis Caryæ albæ in Amer. bor.

48. Sphæropsis Platani Peck 25 Rep. p. 85. — Peritheciis hemi- 1682 sphæricis vel convexis, teneris, nigris, intus albis erumpentibus; ostiolo minuto, papilliformi; sporulis ellipticis vel oblongis, coloratis, 17-25 p. longis.

Hab. in ramis dejectis Platani occidentalis, Bethlehem Americæ septentrionalis.

49. Sphæropsis conglobata Sacc. Cucurbitulæ conglobatæ pycni- 1683 dium Fuck. Symb. p. 171. — Peritheciis transverse erumpentibus, dense cæspitosis confluentibusque, atris, rugulosis subpapillatis, minutis; sporulis ovoideis, continuis (rarissime 1-2-septatis) fuscis, 12-15 ≈ 5-6.

 $\it Hab.$ in corticibus putridis secedentibus Betulæ albæ in Rhenogovia.

50. Sphæropsis valsoidea C: et Ell. in Grevillea. — Peritheciis in 1684 pustulas congestis, 2-3 subconfluentibus, epidermide cinctis, atris, levibus; sporulis ellipticis, brunneis, 15-18 ≈ 7,5.

Hab. in ramis Mori, socia Dothidea moricola, New Jersey America borealis. — An Haplosporella?

51. Sphæropsis Macluræ Cooke in Rav. Fung. Amer. n. 146. — Gre- 1885 garia, erumpens, in lineas disposita; peritheciis atris, 2-4 congestis, intus albis; sporulis ellipticis, demum brunneis, leniter striatis, 18-20 ≥ 10.

Hab. in ramis Macluræ aurantiacæ, Aiken S. Carolinæ in America boreali. — An Haplosporella?

52. Sphæropsis Alni C. et Ell. Grev. V. p. 50. — Peritheciis erum- 1686 pentibus, 3-4 congestis, brunneis, ovatis, submembranaceis; sporulis magnis, ellipticis, brunneis, 25-30 ≈ 10-16.

Hab. in ramis vivis Alni serrulatæ, New Jersey Americæ borealis. — An Haplosporella?

53. Sphæropsis carpinea Sacc. et Br. — Peritheciis hinc inde cæspi- 1687 toso-erumpentibus, aterrimis, globoso-conicis, 1/4-1/3 mill. diam.;

sporulis oblongo-ellipsoideis, 32 = 16, stipitellatis, initio hyalinis, guttulatis, dein flavo-brunneis, continuis.

Hab, in ramis emortuis Carpini Betuli pr. Troyes Galliæ. — Ad Haplosporellam vergit, sed perithecia discreta etsi cæspitosa.

54. Sphæropsis brunnea (Bon.) Sacc. Podosporium brunneum Bon. 1688 Abhandl. II. p. 144. — Peritheciis lentiformibus, primum fuscis, dein nigris, epidermide tectis, demum ostiolo simplici apertis, epidermidem findentibus; sporulis oblongis, brunneis, pedicellatis; basidiis cylindricis.

Hab. in ramis emortuis Fagi silvaticæ in Germania.

55. Sphæropsis Gallæ (Schwz.) B. et C. Sphæria Gallæ Schwnz. Syn. 1689 Am. bor. n. 1446, Sacc. Syll. II. pag. 394. — Cæspitulis sparsis, valde elevatis; peritheciis primo confluentibus. demum semiliberis, assurgentibus, difformibus regularioribus immixtis, rugosis, papillatis, intus albo-farctis.

Hab. in gallis vetustis ramisque Quercus, Celtidis, Juglandis in Amer. bor. — Perithecia interdum crustiformi-conneta. — «An Dothiorella?».

56. Sphæropsis linearis Peck 25 Rep. p. 86. — Peritheciis minutis, 1690 subglobosis, densiuscule sparsis vel seriatim dispositis, erumpentibus, nigris; sporulis ellipticis vel oblongis, coloratis, 20-25 µ. long.

Hab. in ramis emortuis Quercuum, Greenbush Amer. bor.

57. Sphæropsis Ellisi Sacc. Sphæropsis Pinastri C. et Ell. in Gre- 1691 villea. — Peritheciis papilliformibus, epidermide cinctis, hinc illinc subgregariis; sporulis elongato-ellipticis, brunneis, $30 \approx 12$, vel $35-40 \approx 15$.

Hab. in ramis corticatis Pini silvestris, New Jersey Americae borealis.

58. Sphæropsis Pinastri (Lév.) Sacc. Phoma Pinastri Lév. Ann. Sc. 1692 Nat. 1846, p. 282. — Peritheciis gregariis innatis globosis intus extusque nigris, epidermide lacerata tectis, ostiolis pertusis; sporulis ovatis, oblongis, opacis, majusculis, 1-guttatis, 10 \u2226 6-7.

Hab. ad strobilos et folia Pini silvestris prope Parisios, et Eastbourne Britanniæ.

59. Sphæropsis anomala B. et Br. F. of Ceyl. n. 788. — Maculis 1693 minutis aterrimis rugosis; peritheciis confusis superficialibus, depressis, minute granulatis; sporulis obovatis e stipite brevi articulo divisis, demum uniseptatis, 30-32 μ. longis.

Hab. in ramis Artocarpi Lakoochæ, Peradeniya Ceylon.

- An Diplodia?

60. Sphæropsis sarmenticola (Speg.) Sacc. Aplosporella sarmenti- 1694 cola Speg. Fung. Arg. Pug. III. pag. 34. — Peritheciis sparsis v. gregariis, hemisphærico-conicis, atro-carbonaceis, primo tectis, dein epidermide secedente liberis, superficialibus, ¹/₄-¹/₅ mill. diam.; sporulis ovoideis v. ellipticis, rectis v. subinæquilateralibus, granuloso-farctis, amœne fuligineis, 22-24 ≈ 10.

Hab. in sarmentis dejectis putrescentibus Araujæ (Physianthi) albentis in sepibus a la Boca del Riachuelo reip. Ar-

gentinæ.

61. Sphæropsis Sapii (Speg.) Sacc. Diplodia Sapii Speg. F. Arg. 1695 Pug. II. n. 131. — Peritheciis hemisphærico-lenticularibus, ostiolo papillato pertusis, primo cortice tectis eaque secedente liberis, atris, ¹/₅-¹/₄ mill. diam., coriaceo-subcarbonaceis; sporulis ellipticis vel ovoideis, sæpe inæquilateralibus, utrinque obtuse rotundatis, 22-24 ≈ 10-12, continuis, fuligineis.

Hab. in ramis emortuis Excæcariæ (Sapii) biglandulosæ

cerca de la Recoleta in Argentina.

62. Sphæropsis Bonordenii Sacc. Podosporium airum Bon. Handb. p. 1696 227. — Peritheciis globosis, papillatis, atris, liberis, duris; nucleo pallido; sporulis globoso-ovoideis, utrinque apiculatis, hinc subfusoideis, atro-brunneis; basidiis elongatis, simplicibus, fasciculato-convergentibus.

Hab, in ramis in Germania.

63. Sphæropsis fallax (Preuss) Sacc. Microthecium fallax Preuss 1697 F. Hoyersw. n. 24. — Peritheciis subsphæricis, infra corticem insidentibus, gregariis, atris; nucleo subgelatinoso albo; sporulis ovatis, continuis; episporio corneo, fusco-atro, glabro, nucleo albo.

Hab. sub cortice ramorum arborum frondosarum ligno adhæ-

rens, Hoyerswerda.

64. Sphæropsis abscondita Mont. Syll. n. 959 et Fl. Chil., VII. p. 1698 486, t. 10, f. 5. — Peritheciis sparsis membranaceis, globoso-depressis, cortice immersis, nunquam denudatis atris; sporulis e clavato-oblongis continuis, primo hyalinis, tandem olivaceo-brunneis, intus granulosis.

Hab. ad cortices in Chile (GAY).

65. Sphæropsis abnormis Sacc. Sph. anomala B. et C. North Am. 1699 Fungi n. 408^{bis}. — Peritheciis sparsis, nudis, hemisphæricis; sporulis magnis obovatis e pedicellis simplicibus vel furcatis oriundis, 32 μ. longis.

Hab. in ligno putrescente in Carolina inf. Amer. bor.

66. Sphæropsis corticalis (Kalch. et Cooke) Sacc. Macroplodia cor- 1700 ticalis Kalch et Cooke Grev. 1880, p. 18. — Subsuperficialis, gregaria; peritheciis subglobosis, atris, vix papillatis; sporulis ovatoglobosis, fuscis, 7,5 ≈ 4.

Hab. in cortice in Africa australi.

67. Sphæropsis Mougeotiana Lev. Ann. Sc. Nat. 1846, p. 293. — Pe- 1701 ritheciis ovatis confertis, connatis, rugosis, atris, stipite brevi suffultis, ostiolis conicis pertusis; sporulis ovatis elongatis, obtusis continuis, subopacis.

Hab. ad truncos in silvis Carthagene Americæ merid. (herb. Mougeot).

68. Sphæropsis Lecythea (Schw.) Sacc. Sphæria (Diplodia) Lecythea 1702 Schw. Car. n. 155, Curr. Simpl. Sphær. p. 321, fig. 55. — Peritheciis nudis minutis compressis, ostiolo cylindraceo, perithecium dimidium æquante; sporulis ellipsoideis, hyalino-chlorinis, 25-35 μ. longis.

Hab. in ligno carioso in Carolina Amer. bor.

II. In Dicotyledoneis herbaceis.

69. Sphæropsis Vincæ Sacc. et Wint. Miscell. Myc. p. 28 (sub Di-1703 plodia). — Peritheciis gregariis v. subsparsis, teclis, globosis, exiguis, atris, 260-300 μ. diam., ostiolo papillato erumpente; sporulis ovatis, ovato-oblongis v. subpiriformibus, sæpe irregularibus, diu continuis fuligineis, 17-28 = 10-14.

Hab. in foliis caulibusque Vincæ minoris, Amanda, Ohio Amer. bor. (W. H. Kellermann).

70. Sphæropsis Squieriæ Clinton in Peck Rep. on the St. Mus. N. Y. 1704 — Peritheciis minutis, numerosis, epidermide dein longitudinaliter rupta cinctis, nigris; sporulis subglobosis, coloratis, 17-20 p. long.

Hab. in caulibus Aristolochiæ tomentosæ, Buffalo Americæ borealis.

71. Sphæropsis Baptísiæ Thum. Fung. Am. trig. Sp. n. 6. — Peri- 1705 theciis mediis, semiimmersis, gregariis, erumpentibus, epidermide cinctis, depresso-globosis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, 4,5-5 ≈ 2,5-3,5, griseo-ochraceis, pellucidis.

Hab. in ramulis emortuis Baptisiæ perfoliatæ, Aiken Carol. austr. (RAVENEL). — «An Coniothyrii species?».

72. Sphæropsis Isopyri Thüm. Pilzf. Sibir. n. 795. — Peritheciis 1706 dense gregariis, hemisphærico-conicis, e stromate nigro oriundis,

aterrimis, nitidis, caulem totum sæpe obducens; sporulis longe ellipsoideis, continuis, utrinque acutatis, dilute fuscidulis, $12 \approx 5,5-6,5$.

Hab. in caulibus, raro etiam in foliis capsulisque subemortuis Isopyri fumarioidis in desertis pr. Minussinsk Sibiriæ.

73. Sphæropsis Menispermi Peck Rep. of the Bot. 1872, p. 86. — 1707 Peritheciis numerosis, prominentibus, nigris, initio epidermide, dein longit. fissa, tectis; ostiolo emergente; sporulis oblongis, 16-17 p. longis.

Hab. in caulibus Menispermi canadensis, Greenbush America borealis.

74. Sphæropsis Malvæ Fuck. Symb. Myc. p. 397. — Peritheciis mi- 1708 nutissimis, densissimis, atris, maculam oblongam, griseam formantibus.

Hab. in caulibus siccis Malvæ moschatæ, rarius in Rhenogovia. — «An Phoma?».

III. In Monocolyledoneis et Acotyledoneis.

75. Sphæropsis vaginarum (Catt.) Sacc. Phoma vaginarum Catt. Mic. 3709 Ris. p. 4 (10). — Peritheciis hypophyllis nigris, subglobosis, ostiolo simplici pertusis, numerosissimis, approximatis, sæpe connatis, 150 μ . latis; sporulis ovoideis vel piriformibus, continuis, guttulatis, flavis, $15 \approx 9$.

Hab. in vaginis foliorum Oryzæ sativæ in Italia boreali. — «An Conothyrium?»

76. Sphæropsis Oryzæ (Catt.) Sacc. Phoma Oryzæ Catt. Mic. Ris. 1710 p. 4. — Peritheciis liberis vel immersis, membranaceis, nigris, primo clausis, dein ore orbiculari apertis, intus pulpa sporularum repletis; sporulis gelatina immersis, globosis, simplicibus, episporio diaphano, nucleo granuloso, colorato, 14 µ. diam.

Hab. in foliis vaginisque Oryzæ sativæ in Italia boreali — «An Coniothyrium?».

77. Sphæropsis subglobosa Cooke in Grevillea. — Sparsa lirellifor- 1711 mis; peritheciis immersis, emergentibus, cuticulam elongato-findentibus; sporulis subglobosis, brunneis, 10-12 μ. diam.

Hab. in culmis Bambusæ, Demerara, Guyan. angl.

78. Sphæropsis decipiens Lév. Ann. Sc. Nat. 1846, p. 294. — Peri- 1712 theciis globosis, stipatis, seriatis, atris, receptaculo grumoso luteo-viridi latente immersis, ostiolis obtusis pertusis.

Hab. ad culmos Bambusæ arundinaceæ in Java (Zollin-Ger). — An Haplosporella?.



79. Sphæropsis donacina Mont. Cent. VI. n. 39, p. 51 et Syll. n. 1713 962. — Peritheciis solitariis aggregatisque cuticula tectis, globosis nigris, intus cinereis, poro apicali amplo tandem pertusis; sporulis oblongis ovoideisve, primo hyalinis, tandem luteolis, $15 \approx 10$, sporophoris $10-30~\mu$. longis fultis.

Hab. in vaginis siccis Arundinis Donacis in Gallia au-

strali (Castagne).

80. Sphæropsis ambigua Mont. Cent. VI. n. 91, p. 308 et Syll. n. 967. 1714 — Peritheciis innatis, orbiculato-oblongis, depressis, seriato-subconfluentibus fusco-atris, ostiolo papillari vel conico obsoleto instructis, vertice tandem lacero-dehiscentibus; sporulis elliptico-fusiformibus, brevibus, fuscidulis, 15 = 5.

Hab. in culmo repente Zeæ Maydis in agro Petrocoriensi (Durieu).

81. Sphæropsis Dracænarum Penz. et Sacc. F. Mortol. n. 30, tav. V. 1715 fig. 15. — Peritheciis sparsis, hypodermicis, majusculis, 220-240 μ. diam., aterrimis, contextu parenchymatico, carbonaceis, globosis, haud depressis; sporulis breviter ellipticis vel ovoideis, brunneis, centro guttulam hyalinam foventibus, levibus, 16-20 = 10-14; basidiis breviter cylindraceis, 10-15 = 5-6, hyalinis.

Hab. in squamis exsiccatis trunci Dracænæ indivisæ, Mortola Italiæ borealis.

82. Sphæropsis Rusci Thum. Contr. Myc. Lus. n. 549. — Perithe- 1716 ciis dense gregariis, lenticulari-conicis, subapplanatis, fusco-nigris; sporulis longe ellipticis vel interdum clavatis, utrinque subrotundatis, simplicibus, bi-trinucleatis, rectis vel subcurvatis, dilute olivaceis, 15-16 = 5-6,5.

Hab. in ramulis aridis Rusci aculeati, Matta d'Alcarraques pr. Coimbra Lusitaniæ (MOLLER).

83. Sphæropsis marginata B. et C. North Am. Fungi n. 414. — 1717 Peritheciis tectis ocellatis, sparsis; sporulis fusiformibus, elongatis, angustis, brunneis, 25 μ. long.

Hab. in foliis Yuccæ in Carolina inferiore Amer. bor.

84. Sphæropsis paradisiaca Mont. Ann. Sc. Nat. 1855, p. 163 et Syll. 1718 n. 960. — Epiphylla, punctiformis; peritheciis minimis, ½ mill. diam., gregariis, confertis, globoso-depressis, epidermide tectis, atris, apice poro pertusis, nucleo albo; sporulis oblongis, 30 = 13, limbo lato cinctis, tandem brunneolis, sporophoro brevi fultis.

Hab. in foliis Musæ paradisiacæ, Guyana (Leprieux) et Coimbra in Lusitania (Moller). — Forma lusitanica, sec. Thum.

Contr. Myc. Lus. n. 321, peritheciis jugiter liberis prædita est; an diversa?

85. Sphæropsis brasiliensis (Speg.) Sacc. Haplosporella brasiliensis 1719 Speg. Fung. Arg. Pug. III. pag. 34. — Peritheciis hemisphæricoglobosis, subepidermicis, atris, $\frac{1}{4}$ - $\frac{1}{5}$ mill. diam.; sporulis ellipticis v. ovoideis, intense fuligineis, $20 \approx 10$ -12, in sterigmatibus piriformibus, 12- $18 \approx 6$ -8, hyalinis acrogenis.

Hab. in petiolis foliorum Thrinacis brasiliensis in hortis

prope el Retiro in Argentina,

86. Sphæropsis Tricorynes Berk. et Broome Fungi from Brisbane, 1720 Queensland p. 68. — Peritheciis minutis nigris, in parenchymate foliorum immersis; sporulis ellipticis, 30 μ. longis.

Hab. in foliis Tricorynes ancipitis. Endeavor River in Australia.

87. Sphæropsis parasitans B. et R. North Am. Fung. n. 410. — 1721 Peritheciis minutis sparsis papilliformibus; sporulis ellipticis binucleatis, brunneis, 7-8 μ. longis.

Hab. in Hypoxylo quodam, cujus forte est pycnidium, Co-

toosa Springs Americæ borealis.

B) Macroplodia Sacc.

Sporulæ magnæ, muco obvolutæ (Cfr. n. 29).

88. Sphæropsis Ulmi Sacc. et Roum. Reliq. Libert. IV. n. 121. — 1722 Peritheciis massarioideis, cortici innatis, gregariis, ½ mill. diam.; sporulis bolongo-fusoideis, utrinque subrotundatis, 60-70 = 14; fuligineis, continuis, strato mucoso hyalino cinctis, dein exsiliendo matricem fœdantibus.

Hab. in cortice Ulmi, sistens pycnidium Massaria Ulmi, in Arduennis (LIBERT).

CONIOTHYRIUM Corda Icon. IV. p. 38 emend., Sacc. Mich. II. p. 7. (Etym. conis pulvis (sporulæ) et thyreos scutum (perithecium), h. e. perithecium sporulas includens). — Perithecia subcutaneo-erumpentia vel subsuperficialia, globulosa vel depressa, papillata, membranacea vel subcarbonacea, atra. Sporulæ globosæ vel ellipsoideæ exiguæ, continuæ, fuligineæ, basidiis brevibus simplicibus vel obsoletis suffultæ.

I. In Dicotyledoneis arboreis.

1. Coniothyrium olivaceum Bon. in Fuck. Symb. p. 377, Sacc. Mycol. 1723 Ven. p. 191 et Mich. I. p. 205. — Peritheciis sparsis, primitus



epidermide tectis, demum erumpentibus, globosis, majusculis, 300-350 u. diam., papillatis, ostiolatis; sporulis elliptico-oblongis, eguttulatis, continuis, 5-8 = 2-5, brunneo-olivaceis.

Hab. in ramulis, rarius foliorum arborum sequentium, nec non Sambuci racemosæ, Araujæ, Wistariæ, Cycadis, Eucalypti in Germania, Italia, Gallia, Lusitania, America australi, - Var. Philadelphi coronarii: peritheciis globosis, majusculis, initio velatis, dein subliberis, atris, conico-papillatis; sporulis ovoideo-oblongis, 6 = 3, olivaceo-fuscis. - Rhois radicantis: perith. ut. supra; sporulis $6-7 \approx 3^{1}/_{2}-4$. — Hederæ: perith. ut supra; sporulis $5-8 \approx 4$. — Loniceræ Xylostei: perith. ut supra; sporulis $6-7 \approx 5$. - Carpini Betuli: perith. ut supra; sporulis 6 = 3. - Populi nigræ: perith. ut supra; sporulis 5-6 = 3. — Catalpæ syringifoliæ: perith. ut supra; sporulis 6-7 = 31/2. — Hesperidum: perith. ut supra sed vix papillatis; sporulis 5-8 = 2-4. — Amorphæ fruticosæ: perith. ut supra; sporulis 8 = 4-5. - Sophoræ japonicæ: perith. ut supra; sporulis $6-7 \approx 3-3^{1}/_{2}$. — Sarothamni: perith. ut supra; sporulis 5-6 = 3. — Evonymi japonici: perith. ut supra; sporulis 6-7 = 5. — Ailanthi glandulosæ: perith. ut supra; sporulis 7-8 = 31/2-41/2. — **Paliuri aculeati:** perith. ut supra et cæspitulosis; sporulis 6-8 = 3-4. - Magnoliæ grandifloræ: (in foliis) perith. ut supra; sporulis 5-7 = 3-4. — Celtidis australis: perith ut supra; sporulis $6 = 2^{1}/_{2}-3$. Calycanthi floridi: perith. ut supra; sporulis 5-6 = 4-5. - obovoideum Karst. Hedw. 1880, p. 61: peritheciis obovoideis, confertis, subsuperficialibus; sporulis sphæroideo-ellipsoideis, 4-6 = 3-4, vel diam. 3-5 μ. — In cortice et ligno ramorum Populi tremulæ in Fennia.

2. Coniothyrium Fuckelii Sacc. Fungi Ven. novi vel critici, Ser. V. 1724 p. 200, Mich. I. p. 207. - Peritheciis hypodermeis, sparsis, aterrimis, 180-200 μ. diam., globoso-depressis; ostiolo vix prominente; sporulis numerosissimis, globulosis vel breve ellipticis, 2,4-5=23,5, olivaceis vel dilute fuligineis; basidiis non visibilibus.

Hab. in ramis emortuis vel languidis, corticatis Rubi (sp. glob. 3-4 μ . d.), Ampelopsidis (sp. glob. 4 μ . d.), Tecomæ (sp. 3-4 = 2.5-3), Rosarum (sp. 3-5=3), Robiniæ (sp. 3 = 2.6), Berberidis (sp. globoso-subangulosæ, 4 p. d.), Helianthemi (sp. $3-3.5 \approx 2$), in foliis Citrorum arescentibus (sp. $2.5-3 \approx 1.5-2.5$) in Italia, Gallia, Germania, Austria. — Sistit spermogonium Leplosphæriæ Coniothyrii.

3. Coniothyrium insitivum Sacc. Mich. I. p. 206, — Peritheciis (ge- 1725-

nuinis?) in acervulos conoideos subaggregatis, tectis, sæpe difformibus, aterrimis, nigrofarctis; sporulis oblongo-ovatis vel ovoideo-reniformibus, $4^1/_2$ - $7 \approx 2^1/_2$ -4, olivaceo-fuligineis, in basidiis brevissimis acrogenis.

Hab. in ramulis Gleditschiæ, Albizziæ, Berberidis, Rhamni cathartici, Ulmi campestris et Ailanthi glandulosæ, Syringæ, Pruni Padi in Italia boreali et Gallia. — Membrana perithecii deesse videtur, sed nuclei sunt definite efformati, ergo non Melanconii species. Forma Syringæ præbuit basidia bacillaria $15-16 \approx 2$, hyalina. $Con.\ incrustans$ Sacc. huic affine est, sed differt sporulis globulosis, $5 \approx 4$, fuligineis hyalino-1-guttulatis.

4. Coniothyrium Rosarum Cooke et Hark, in Grevillea n. 64. — Gre- 1726 garium, tectum, demum corticem stellato-findens; sporulis profusis subglobosis ovatisve, continuis, pallide fuscis, $4 \approx 3$.

Hab. in ramis Rosarum in California.

5. Coniothyrium Cerasi Pass. Ancora della Nebbia dei Gelsi etc. p. 3. 1727 — Peritheciis minutissimis, sparsis, globulosis, epidermide velatis, vertice vix denudatis vel tandem epidermide elapsa superficialibus, atris; sporulis subrotundis vel oblongis, 5-10 ≈ 5, olivaceis.

Hab. ad ramulos repente arefactos Pruni Cerasi. Parma in Italia bor. — Dantur quoque perithecia hinc inde sparsa, multo grandiora, sporulis similibus fæta.

6. Coniothyrium Hederæ (Desm.) Sacc. Mich. I. p. 204, Phoma He-1728 deræ Desm., Cooke Handb. p. 418, Melanconium Hederæ Preuss Hoyersw. p. 717, n. 312. — Peritheciis lenticularibus, majusculis, epidermide nigrificata velatis; sporulis e globoso subovoideis, 6-8 ≈ 4,5-6, sæpius subangulosis, 1-2-guttulatis, olivaceo-fuscis, guttulis grandiusculis pallidioribus, initio stipitellatis.

Hab. in ramulis foliisque Hederæ Helicis in Britannia, Gallia et Italia boreali.

7. Coniothyrium Bergii Speg. F. Arg. Pug. III. n. 114. — Peritheciis 1729 sparsis, subepidermicis, atris, $80-100~\mu$. d., prominulis, membranaceis, carbonaceis, ostiolo impresso-pertusis; sporulis ellipticis, utrinque acute rotundatis, $10-12 \approx 5-6$, fuligineis, simplicibus.

Hab. ad spinas vivas Berberidis heterophyllæ in campis prope Santa Cruz de Patagonia (D. Bere). — Cum C. Fuckelii Sacc. f. Berberidis (Mich. II. p. 207) non comparandum.

8. Coniothyrium fuscidulum Sacc. Mich. I. p. 205. — Peritheciis gre- 1730 gariis, in fibris ligneis nidulantibus erumpentibusque, globulosis,

atris; sporulis e globoso ovoideis, $4-5 \approx 2-3.5$, 1-guttulatis, olivaceis.

 $\it Hab.$ in ramis decorticatis Sambuci nigræ in Italia boreali et Gallia, socio sæpe $\it Metanommate fuscidulo Sacc.$, cujus videtur spermogonium. — Forma Galegæ: sporulis 5-6 \approx 3. In ejusdem caule in Gallia.

9. Coniothyrium Sarothamni (Thūm.) Sacc. Phoma Sarothamni Thūm. 1731 Myc. Univ. n. 576. — Peritheeiis gregariis, globosis, epidermide tectis, dein liberis, applanatis, nigris; sporulis ovatis vel ovoideis, unicellularibus, sine nucleo, 5,5-7 ≈ 3-3,5, pellucidis, dilute fuscis.

Hab. in ramulis præcipue tenuibus, emortuis Sarothamni scoparii raro, Bayreuth Bavariæ. — An Coniothyrium?

10. Coniothyrium sublineatum Sacc. et Malbr. Mich. II. p. 624. — 1732 Peritheciis secus angulos caulium subseriatis, globulosis, subcutaneis, nigris, $\frac{1}{6}$ mill. diam.; ostiolo obtusiusculo, erumpente; sporulis oblongis vel subfusoideis, utrinque acutiusculis, $12-13 \approx 3.5-4$, fuligineis.

Hab. in ramulis emortuis Sarothamni scoparii, Brionne in Gallia.

11. Coniothyrium sphærospermum Fuck. Symb. Myc. p. 377. — Pe- 1733 ritheciis sparsis, punctiformibus, in macula exarida erumpentibus, globosis, papillatis, atris; sporulis simplicibus, globosis, numerosis, circiter 2-3 μ. diam., flavis.

Hab. in caulibus siccis Cytisi sagittalis rarius in Rhenogovia et in Jura Helvetiæ.

12. Coniothyrium cytisellum (Pass. et Thüm.) Sacc. Phoma cytisella 1734 Pass. et Thüm. Contr. Myc. Lus. n. 561. — Peritheciis gregariis, interdum confluentibus, primo tectis, demum disciformi-erumpentibus, aterrimis; sporulis late oblongis, ad polos obscure nucleatis, sterigmatibus longis fultis, dilute fuscidulis, pellucidis, 4,5-5,5 ≥ 3.

Hab. ad ramulos aridos Cytisi albi, Villa Franca prope Coimbra in Lusitania (Moller).

13. Coniothyrium globuliferum Rabh. Hedw. 1878, p. 60. — Peri- 1735 theciis epiphyllis, hinc inde maculiformi-congestis, erumpenti-prominulis, hemisphærico-globulosis, subastomis, nigris, nitidulis; sporulis globosis, 7 p. diam., levibus, fuscis, guttulâ unicâ centrali præditis.

Hab. in foliis Bauhiniæ Vahlii in horto botanico Calcutta Indiæ orient. (S. Kurz).

14. Coniothyrium fædans Sacc. Mich. I. p. 95. — Peritheciis grega- 1736

riis vel hine inde aggregatis, cortice nidulantibus, nigris, farctis, dein cavis; ostiolo impresso, minuto; perithecii contextu parenchymatico olivaceo-fuligineo, distincto; sporulis copiosis, ut plurimum perfecte globosis, $2 \ge 3$ μ . d., rarius globoso-ellipsoideis, $4 \ge 3$, initio brevissime stipitatis, hyalinis, denique olivaceis, 1-guttulatis, tandem effusis corticemque late olivatro-inquinantibus.

Hab. in ramis corticatis Robiniæ Pseudacaciæ, Mori albæ et Quercus in Gallia, in ramis Juglandis regiæ in Italia bor. — A Con. Fuckelii Sacc. peritheciis majoribus, sporulis globosis minoribus, denique inquinantibus recedit. Habitus Melanconii, sed perithecia adsunt.

15. Coniothyrium punctum Cooke et Harkn. in Grevillea n. 64. — 1737 Sparsum, subliberum, maculis nigris insidens; peritheciis minimis, depressis, atris, 150 μ. diam.; sporulis subglobosis, pallide fuscis, 5 μ. diam.

Hab. in ramis decorticatis Acacia in California.

16. Coniothyrium decipiens Cooke et Harkn. in Grevillea n. 64. — 1738 Erumpens, prominulum, subgregarium; peritheciis globosis, atris, opacis, subrugosis, demum superficialibus; sporulis ovalibus subglobosisve continuis, pallide fuscis, 4 ≈ 3.

Hab. in ramis Acaciæ in California.

17. Coniothyrium Leguminis Sacc. Mich. II. p. 105. — Peritheciis 1739 gregariis, epidermide velatis, globoso-depressis, 100 μ. diam., poro amplo pertusis; sporulis oblongo-ellipsoideis, 6-7 ≈ 4, 2-guttulatis, olivaceo-fuscis.

Hab. in leguminibus dejectis Robiniæ Pseudacaciæ in Gallia prope Rouen (Letendre).

18. Coniothyrium Jasmini (Thüm.) Sacc. Phoma Jasmini Thüm. Contr. 1740 Myc. Lus. n. 152. — Peritheciis dense gregariis, minutis, globosis, atris in macula irregulari, arescendo-albicante, fusco-cincta, magna, plerumque confluente; sporulis ellipsoideo-globosis, utrinque rotundatis, enucleatis, numerosissimis, fuscescentibus, 6-8 μ. diam.

Hab. in ramulis vivis Jasmini officinalis prope Lisboa in Lusitania (DE VEIGA).

19. Coniothyrium Castagnei Sacc. Cfr. Fuck. Symb. App. II. p. 24 1741 ut spermog. Lept. Jasmini. — Perithećiis spuriis in ramulorum aridorum superiore parte sparsis, sub epidermide nidulantibus, punctiformibus, orbicularibus, scutiformibus, atris, demum vertice prominulis et regulariter perforatis seu irregulariter dehiscentibus; sporulis plerumque ovatis oblongisque, continuis, fuscis, $6-8 \approx 5-6$.

Hab. in ramulis superioribus siccis Jasmini fruticantis in Rhenogovia.

20. Coniothyrium vagabundum Sacc. Fung. V. N. Ser. II. p. 318, sub 1742 n. 61, Leptosphæriæ vagabundæ st. spermog. — Péritheciis ni-gro-farctis, sphærioideis vel subangulosis, immersis; sporulis oblongis, $4 \times 1,5$, olivaceis.

Hab. in ramis Corni sanguineæ, Selva prope Treviso in Italia boreali.

Coniothyrium Montagnei Cast. in Ann. Sc. Nat. 1849, p. 304. — 1743
 Peritheciis sparsis, minutissimis, 50 μ. diam., ovato-globosis, depressis, tandem ruptis, atris; sporulis sphæricis, olivaceo-umbrinis,
 10 μ. diam., episporio crasso; basidiis nullis vel obsoletis.

Hab. in ramulis emortuis Elæagni angustifolii, inque caulibus, pedunculis fructibusque Bupleuri fruticosi prope

Montaud-lès-Miramas in Gallia (Castagne).

22. Coniothyrium Aucubæ Sacc. Fungi V. N. Ser. IV. p. 4, sub n. 8 1744 ut status micropycnidicus *Physalosporæ pustulatæ* Sacc. — Peritheciis gregariis, subcutaneis, globulosis, vix papillatis, intus atronucleatis; sporulis ovoideis, 6 = 4-4,5, fuligineis.

Hab. in ramis ramulisque Aucubæ japonicæ, Padova in Italia boreali.

23. Coniothyrium Diplodiella (Speg.) Sacc. Phoma Diplodiella Speg. 1745 Amp. n. 4. — Maculis dilute cinerescentibus, marginibus subfuligineis, rotundatis vel irregulariter oblongis, 2-8 mill. magn., centro punctis atris densiusculis ornatis; peritheciis gregariis, subepidermicis e globoso-lenticularibus, ostiolo impresso pertusis, tenuibus membranaceis, fuligineis, 100-150 μ. diam.; sporulis ellipticis vel ovoideis, quandoque subnavicularibus, fuligineis, 1 vel 2 guttulis præditis, utrinque obtusiusculis, 7-11 ≈ 5,5, basidiis hyalinis filiformibus suffultis.

Hab. in baccis maturis Vitis viniferæ, præcipue varietatis Rabosa, Conegliano in Italia boreali.

24. Coniothyrium phacidioides Speg. F. Arg. Pug. IV. n. 298. — Ma- 1746 culis latiusculis, difformibus, elongatis, determinatis, albis vel albogriseis; peritheciis sæpius centralibus, laxe gregariis, applanatolenticularibus, subangulosis, 150-180 μ. diam., epidermide tectis, eaque adnatis, atris, per ætatem varie obliteratis, glabris; sterigmatibus dense constipatis, filiformibus, 30 × 1, hyalinis, simplicibus; sporulis acrogenis, ellipticis, utrinque obtusiusculis, 6-10 × 3-5, rectis vel inæquilæteralibus, fuligineis.

Sphærioideæ, Phæosporæ, Coniothyrium.

Hab. in sarmentis dejectis putrescentibus Rubi fruticosi. Boca del Riachuelo in Argentina.

25. Coniothyrium fusco-atrum Penz. Sacc. Mich. II. p. 440. - Pe- 1747 ritheciis sparsis vel laxe gregariis, primum epidermide tectis, demum erumpentibus, globosis, atris, majusculis, 360-420 µ, diam.; ostiolo vix prominente; sporulis ut plurimum perfecte globososphæricis vel breve ellipticis, atro-fuscis, eguttulatis, 5-7 = 4,5-5.

Hab. in ramulis siccis Citri Aurantii in frigidariis, Padova Italiae borealis.

26. Coniothyrium Callicarpæ Cooke Grevill. 1884, n. XII. p. 22. - 1748 Sparsum, tectum, demum cortice fisso-erumpens; peritheciis atris, subdepressis; sporulis globosis, pallide fuscis, 4 μ. diam.

Hab. in ramis Callicarpæ in Carolina infer. Amer. sept.

27. Coniothyrium cæspitulosum Sacc. Mich. I. p. 206. — Dothideoi- 1749 des; peritheciis globulosis, papillulatis, erumpentibus, in cæspitulos dense aggregatis et e mutua pressione sæpe angulosis, atris; contextu laxe celluloso ferrugineo; sporulis e globoso ovoideis, sæpius basi subapiculatis, 8-9 = 6-8, e hyalino dilute flavidis.

Hab. in ramulis Tamaricis gallicæ, Verona (A. Massa-LONGO), Conegliano Ital. bor. (Spegazzini) et in Gallia (Therry).

28. Coniothyrium subradicale Karst. Hedw. 1884, p. 18. — Perithe- 1750 ciis cæspitosis, per peridermium erumpentibus, subsphæroideis, subastomis vel papillatis, atris, minimis; sporulis ellipsoideis, utrinque sæpe attenuatis, simplicibus, rectis, flavescentibus, $12-20 \approx 7-8,5$.

Hab. in radice denudata Tiliæ ulmifoliæ prope Aboam.

29. Coniothyrium australe Sacc. Mich. I. p. 206. — Peritheciis cortice 1751 nidulantibus, epidermidem pustulatim breve elevantibus, e fibris corticalibus mutatis conflatis (ergo spuriis?), ochraceis; sporulis oblongis, 12 = 7, basi cuneatis, apice inequaliter obtusatis, 3-pluriguttulatis e luteo pallide ochraceis, in basidiis brevibus, fasciculatis acrogenis.

Hab. in ramulis Paliuri aculeati, Vittorio in Italia bor. — Var. β. Tiliæ Sacc. Mich. II. p. 624: peritheciis dense gregariis subcutaneis; sporulis late ovatis, 12-14 = 7-9, uniguttatis, fuligineoatris. — In ramis Tiliæ europææ pr. Rouen Galliæ (Letendre).

30. Conjothyrium microscopicum Sacc. Mich. I. p. 49, Cookellæ mi- 1752 croscopicæ st. sperm - Peritheciis punctiformibus, gregariis, superficialibus, dimidiato-applanatis, ambitu irregularibus, astomis; sporulis globulosis vel' obtuse angulosis, 7-8 µ. diam., initio 1-guttulatis, hyalinis, dein ochraceo-fuligineis.

Hab. in pagina inferiore foliorum languidorum Quercus pedunculatæ in silva Montello Italiæ bor.

31. Coniothyrium quercinum (Bon.) Sacc. Clinterium quercinum Bon. 1753 Abhandl. Geb. der Mykologie II. p. 145. — Peritheeiis globosis, semiimmersis, epidermide primum tectis, gregariis, atris, semper clausis; sporulis globosis, dilute fuscis, intus granulosis, terminalibus; basidiis simplicibus, parce ramosis.

Hab. in ramis quercinis in Germania.

32. Coniothyrium scutatum (Preuss) Sacc. Dirimosperma scutatum 1754
Pr. F. Hoyersw. n. 303. — Peritheciis lentiformibus, innatis, tenuibus, membranaceis, papillatis; basidiis continuis; sporulis ovatis, intense fuscis.

Hab. in cortice Populi, Hoyerswerda.

33. Conicthyrium populinum Schulz. et Sacc. Micr. Slav. n. 28, Schulz. 1755 Ill. Fung. Slav. n. 9. — Peritheciis sparsis, globoso-depressis, minutis, centro dein poro irregulari dehiscentibus; sporulis globosis, ochraceis, 5-8 μ. diam.; basidiis..... non visis.

Hab. in ramis decorticatis Populi, Eperjes in Slavonia.

34. Coniothyrium syconophilum Schulz. et Sacc. Micr. Slav. n. 27, 1756 Schulz. Ill. Fung. Slav. n. 54. — Peritheeiis subcutaneis, globosis, ostiolo papillato erumpente, $^1/_4-^1/_3$ mill. diam., nigro-farctis; sporulis ellipsoideo-oblongis, 1-nucleatis, 5-6 μ . longis, fuligineis, basidis bacillaribus, spora duplo longioribus, suffultis.

Hab. in ramis corticatis Fici Caricae prope Vinkovce in Slavonia.

35. Coniothyrium botryosphærioides Sacc. et Br. — Peritheciis in 1757 cæspites erumpentes, crassos, $1^1/_2-2^1/_2$ mill. diam., dense collectis, nigris, globulosis, obsolete papillatis, $1/_5$ mill. diam.; sporulis ovoideis, $5-6 \approx 4$, fuligineis.

Hab. in ramis emortuis Populi prope Troyes Galliæ.

36. Coniothyrium eurotioides Sacc. Mich. II. p. 105. — Peritheciis 1758 gregariis, globulosis, ½ mill. diam., superficialibus, pallidis, pertusis; sporulis oblongo-ovoideis, 7-9 ≈ 5, utrinque rotundatis, 8-9 ≈ 5, 2-guttulatis, fuscidulis.

Hab. in ramis Salicis, Rubi, socia Letendræa eurotioide, cujus certe spermogonium, prope Rouen Galliæ (Letendræ). — An ad Sphæropsideas nectrioideas ducendum?

37. Coniothyrium?? abnorme Sacc. Mich. II. p. 281. — Peritheciis 1759 subsuperficialibus, dense gregariis carbonaceis, globosis, majusculis, 1 mill. diam., atronitidis, astomis, contextu anguste parenchyma-

tico (saltem ita viso) fusco, intus denique roseo-flocculosis; sporulis perfecte globosis, magnitudine variis, 10-18 µ. diam., 1-raro 2-guttulatis, fuligineis.

Hab. in ligno putri fagineo intus sæpe (ob Coniothyrium?) cruentato in silva Cansiglio Italiæ bor.

38. Coniothyrium Platani Sacc. Mich. L. p. 206. — Peritheciis glo- 1760 bulosis, subcutaneis, vix erumpentibus, nucleo farcto atro; sporulis oblongo-ovoideis, $3 \approx 1^{1}/_{2}$, olivaceis, basidiis cylindraceis. simplicibus ramulosisque fultis.

Hab. in ramis corticatis Plataminarientalis, Conegliano Italia bor. (Spegazzini).

39. Coniothyrium mixtum Fuck. Symb. Myc. p. 377. — Peritheciis 1761 subimmersis, sparsis, globosis compressisve, papillatis, atris; sporulis simplicibus, aliis ovatis, aliis globosis, minutis, 7 = 4.

Hab. in ramis putridis decorticatis Platani orientalis in Rhenogovia.

Coniothyrium paradoxum (Brun.) Sacc. Phoma paradoxa Brunaud 1762 in Rev. Myc. IV. p. 98. — A Phoma Broussonetic Sacc. differt sporulis obovatis, 4 ≈ 2, brunneis.

Hab. in ramis siccis Broussonetiæ papyriferæ, Saintes Galliæ.

41. Coniothyrium anserinum Sacc. F. Ven. Ser. IV. p. 19. — Peri- 1763 theciis globoso-angulosis, nigro-farctis, ligno-immersis; sporulis ellipsoideis, fuligineis, 5-5,5 ≈ 2,5.

Hab. in ramis decorticatis Broussonetiæ papyriferæ et Fici Caricæ, Selva, Treviso in Italia bor., et in Gallia.

42. Coniothyrium incrustans Sacc. Fungi Ven. novi vel crit. Ser. IV. 1762 p. 14. Thyridariæ incrustantis st. sperm. — Peritheciis e sphæroideo angulosis, rugulosis, tectis, nucleo nigro fætis, hyphis fuligineis parcis cinctis; sporulis ovoideis, initio hyalinis stipitellatis, dein fuscis, 5 ≈ 3-4.

Hab. in ramis corticatis Broussonetiæ, Albizziæ, Iulibrissin, Rhois typhinæ, Juglandis regiæ in agro tarvisino et patavino Ital, borealis.

43. Coniothyrium ulmeum Karst. Hedw. 1884, p. 63. — Peritheciis 1765 per corticem erumpentibus, cæspitosis, difformibus, inæqualibus, atris, astomis, 0,4 mill. d.; sporulis ellipsoideis, flavidis, 6-7 ≈ 3-4.

Hab. in ramis emortuis Ulmi ad Aboam Fenniæ.

44. Coniothyrium albistratum (Peck) Sacc. Phoma albistrata Peck 1766
Bot. Gaz. Amer. 1880, p. 33. — Peritheciis minutis, 170-200 μ. d.,



strato tenui, albido, crustaceo insitis, sparsis, conicis vel subglobosis, subliberis, a matrice facile secedentibus, nigris; sporulis ovato-ellipsoideis, leniter coloratis, coacervatis, brunneis, binucleatis, $5-7.5 \approx 4-5$.

Hab. in cortice Thujæ orientalis, Vermont Amer. bor. — Incertum an stratum stromaticum proprium sit vel heterogeneum.

45. Coniothyrium pallido-fuscum Sacc. Mich. II. p. 105. — Perithe- 1767 ciis sparsis, hemisphæricis, 90-100 μ. diam., epidermide velatis; sporulis ellipsoideis, 5 ≈ 3, pallide fuscidulis.

Hab in foliis Araucariæ brasiliensis, Paris Galliæ, una cum Pestalozzia funerea (Roumeguère).

46. Coniothyrium oospermum (Fuck.) Sacc. Phoma ovisperma Fuck. 1768 Symb. p. 161. — Peritheciîs sparsis, subliberis, punctiformibus, parum compressis, hemisphæricis, atris, ostiolo subtilissimo compresso; sporulis ovoideis, continuis, 7 ≈ 4, flavis.

Hab. in ligno putri Pini in Rhenogovia. — Spermogonium

Teichosporæ brevirostris.

47. Coniothyrium dispersellum Karst. Hedw. 1884, p. 41. — Peri- 1769 theciis dispersis, inter fibras ligni liberis, rotundatis, astomis, demum ore lato apertis, mollibus, tenuissimis, nigrescentibus, 0,2 mill. diam.; sporulis ovoideis vel ellipsoideis, sæpe inæqualibus, hyalinis, in clivaceum vel olivaceo-fuscum nonnihil vergentibus, 5-8 = 3-4,5.

Hab. in ligno pineo, Padasjoki Fenniæ (EDM. WAINIO).

48. Coniothyrium colliculosum (Fr.) Sacc. Mich. II. p. 104, Sphæro- 1770 næma colliculosum Fr. — Peritheciis majusculis, ½ mill. diam., globoso-depressis, denique sub-superficialibus; sporulis globoso-ellipsoideis, 6-8 ≈ 5, fuligineis.

Hab. in ligno abietino denudato in Vogesis Galliæ. — An

idem ac Sphæronæma colliculosum.

49. Coniothyrium glomerulatum Sacc. Mich. I. p. 209. — Peritheciis 1771 innato-erumpentibus, hinc inde 2-5-glomerulatis, globosis, vix papillatis, ¹/10 mill. diam, aterrimis; sporulis ovoideis, 3 ≈ 2, olivaceo-fuligineis.

Hab. in bracteis strobilorum Abietis excelsæ prope Rouen Galliæ (Letendre).

50. Coniothyrium conorum Sacc. et Roum. Mich. II. p. 624. — Pe- 1772 ritheciis gregariis, innato-erumpentibus, globulosis, 300 μ . diam., minute pertusis; sporulis globoso-ellipsoideis, $7-9 \approx 5^{1}/_{2}-6^{1}/_{2}$, ochraceo-fuligineis, 1-guttatis.

Hab. in squamis conorum Abietis in Arduennis (LIBERT).

51. Coniothyrium lignorum Sacc. Clisosporium lignorum Fr. S. M. III. 1773 p. 335 et in Hedw. 1864, p. 74. — Peritheciis minimis, fusco-nigris, erumpentibus, membranaceis, globoso-depressis, ostiolo subpapillato pertusis; sporulis minimis subglobosis ovoideisve; basidiis nullis visis; cirris madore exsilientibus longis, fuligineis.

Hab. in asseribus ligneis in Germania et Suecia. — Perithecia subcohærentia, tenuissimæ maculæ nigræ (mycelio sine dubio) pas-

sim insidentia.

52. Coniothyrium myriocarpum (Fries) Sacc. Sphæria myriocarpa 1774 Fr. S. M. II. p. 459. — Confertum, atrum, nitidum; peritheciis minimis, globosis, levibus, astomis; sporulis ovoideis vel ovoideo-oblongis, continuis, majusculis, fuscis.

Hab. in lignis ad terram dejectis in Suecia, Germania, Gallia. — Omnino superficiale, nunc confertum, nunc etiam sparsum, levissimum, vetustum leviter collabitur. Ostiolum obsoletum, demum pertusum. — β . abietinum Karst. Symb. Myc. XV. p. 156: sporulis ovoideis subinde inæquilateralibus, fuligineis, eguttulatis, $11-15 \approx 5-8$. — In ligno A bietis, Mustiala Fenniæ.

53. Coniothyrium rubellum Cooke in Grevillea. — Sparsum; peritheciis membranaceis, parvulis, brunneis, in maculis roseis nidulantibus; sporulis ovoideis, pallido-fuscis, 5 ≈ 3.

Hab. in ligno decorticato, New York Amer. bor.

54. Coniothyrium coloratum (Peck) Sace Phoma colorata Peck Bot. 1776 Gaz. 1880, p. 34. — Peritheciis minutis, 150-200 μ. diam., subliberis, hemisphæricis vel subconicis, subinde (in sicco) depressis, nigris; sporulis minutis, late ellipsoideis, continuis, coloratis, 5-6,2 μ. longis, coacervatis brunneis.

Hab. in ligno emortuo, Vermont in Amer. bor. (C. G. PRINGLE).

II. In Dicotyledoneis herbaceis.

— Peritheciis in ligno superficie nigrificato, basi insculptis, globoso-conicis, atris, 1/2 mill. d. obtusiusculis; sporulis ovato-ellipsoideis, olivaceo-fuligineis, 5 ≈ 3.

Hab. in caule putri Brassicæ in Arduennis (LIBERT).

56. Coniothyrium hortense Sacc. et Malbr. Mich. II. p. 624. — Pe- 1778 ritheciis dense gregariis, subcutaneis, globuloso-depressis, punctiformibus, 80-100 μ . diam., pertusis, ostiolo vix erumpente; sporulis ellipsoideis, $12-14 \approx 7-8$, continuis, atrofuligineis.

Hab. in caulibus emortuis Pisorum prope Rouen in Gallia

(MALBRANCHE).

57. Coniothyrium subolivaceum Sacc. Clisosporium olivaceum Bon. 1779 Abhandl. p. 140. — Peritheciis globosis vel subglobosis, scabris, ostiolo simplici pertusis, primo pallidis, dein olivaceo-nigris, epidermide tectis; basidiis nullis; sporulis ovoideis, olivaceo-viridulis; mycelio albo sub epidermide repente.

Hab. in caulibus Lupini in Germania.

58. Coniothyrium conoideum Sacc. Mich. I. pag. 203. — Peritheciis 1780 sparsis hemisphærico-conoideis, minutis, initio epidermide velatis, dein erumpenti-superficialibus, atris, nitidulis; sporulis ellipsoideo-globulosis, $3\frac{1}{2} \approx 2\frac{1}{2}$, 1-guttulatis, luteolis.

Hab. in caule putri Angelicæ silvestris, una cum Leptosphæria conoidea, cujus est verisimiliter status spermogonicus, in silva Montello, nec non in caulibus Urticæ et Scrophulariæ

in Gallia.

59. Coniothyrium Saponariæ Sacc. et Speg. Mich. I. p. 204. — Pe- 1781 ritheciis globuloso-lenticularibus, 200 μ . diam., contextu parenchymatico circa porum latiusculum densiore, fuligineo; sporulis brevissime cylindraceis, utrinque obtusis, $4-4^1/2 \approx 2$, e hyalino pallide fuligineis.

Hab. in caulibus emortuis Saponariæ officinalis, Cone-

gliano in Italia bor.

60. Coniothyrium Scrophulariæ (Fuck.) Sacc. Phoma Scrophulariæ 1782 Fuck. Symb. Myc. p. 112. — Peritheciis minutis, gregariis, depressis, atris; ostiolis minutissimis, erumpentibus; sporulis subglobosis, minutissimis, flavis.

Hab. in caulibus Scrophulariæ Ehrharti in Rhenogovia. 61. Coniothyrium scapisedum Sacc. et Speg. Mich. I. p. 204. — Pe- 1783 ritheciis globuloso-lenticularibus, initio epidermide velatis, 200-250 μ . d., anguste pertusis; contextu parenchymatico fuligineo; sporulis globoso-ovoideis, $2-3 \approx 1\frac{1}{2}-2$, pallide fuligineis.

Hab in scapis emortuis Plantaginis lanceolatæ, Conegliano Ital. bor. (Spegazzini), et in scapis Armeriæ plantagi-

new prope Rouen in Gallia (MALBRANCHE).

62. Coniothyrium Halymi (Cast.) Sacc. Mich. II. pag. 371, Sphæria 1784 Halymi Cast. — Peritheciis dense gregariis, innato-erumpentibus, amphigenis globoso-lenticularibus, vix 100-110 \(\mu\). diam., poro pertusis; contextu distincte parenchymatico, fuligineo-olivaceo; sporulis globosis, 5-6 \(\mu\). d. dilute fuligineis, guttulà subroseà fœtis.

Hab. in foliis languidis Atriplicis Halymi, Angers in Gal-

lia (Guepin).

63. Coniothyrium silvaticum Sacc. et Malbr. Mich. II. p. 624. — Pe- 1785

ritheciis sparsis, innatis, suberumpentibus, globulosis, 1/5 mill. d., ostiolo brevi obtuso; sporulis globuloso-ellipsoideis, 3,6-4,5 μ . d., fuligineis, uniguttatis.

Hab. in caulibus Euphorbiæ silvaticæ, Elbeuf in Gallia (Malbranche).

64. Coniothyrium Parietariæ Sacc. et Speg. Mich. I. p. 204. — Pe- 1786 ritheciis cortice secedente superficialibus, subhemisphæricis, 200- 300 μ . diam., umbilicatis, carbonaceis; sporulis ovoideo-globulosis, $4-5\approx 2-3\frac{1}{2}$, lutescenti-olivaceis.

Hab. in radicibus emortuis Parietariæ officinalis, Conegliano Italiæ bor. (Spegazzīni).

65. Coniothyrium herbarum Schulz. et Sacc. Micr. Slav. n. 26, Schulz. 1787 Ill. Fung. Slav. n. 271. — Peritheciis subgregariis, initio epidermide velatis, lenticularibus, ¹/10-¹/6 mill. diam., poro pertusis; sporulis oblongo-teretiusculis, utrinque rotundatis, 5 ≈ 2, brunneolis.

Hab. in caulibus Asclepiadis Syriacæ prope Vinkoyce in Slavonia. — Præcipue peritheciis lenticulari-applanatis dignoscenda species.

66. Coniothyrium æquivocum (Ces.) Sacc. Phoma æquivocum Ces. 1788 Myc. Born. p. 25. — Peritheciis subcutaneis, in caule exsiccato, sparsis, globoso- vel ellipsoideo-depressis, ostiolo papillari emergente; sporulis ovalibus obtusis, fuscis, 3 ≥ 2.

Hab. in caulibus exsiccatis, Sarawak Bornei (Beccari).

III. In Monocotyledoneis.

67. Coniothyrium concentricum (Desm.) Sacc. Mich. I. p. 204, Phoma 1789 concentrica Desm. Ann. Sc. Nat. 1840, XIII. p. 189. — Peritheciis lentiformibus, subastomis, contextu parenchymatico fuligineo; sporulis e globoso ovoideis, 4-5≈3-4, initio hyalinis, dein flavidis, tandem fuligineis, plerumque 1-guttulatis.

Hab. in foliis Yuccæ gloriosæ, Yuc. filamentosæ, Yuc. aloifoliæ, Fourcroyæ excelsæ in Italia, Gallia, Belgio, Lusitania, Britannia et Amer. bor. — Perithecia non semper concentrice disposita, modo epidermide nigricante nunc immutata velata. — Var. Agaves: peritheciis sparse gregariis, erumpenti-superficialibus, globulosis. In foliis Agaves americanæ in Italia, Lusitania, Austria. — *C. inops Sacc. Mich. II. p. 142, Phoma concentrica Rav. et Cooke F. A. n. 243. In foliis Yuccæ filamentosæ. — A C. concentrico typico differt peritheciis minus evolutis, ½ mill. diam., globoso-conicis, immersis et sporulis, 3-

 $3^{1}/_{2}$ μ . d., globosis, minoribus, olivaceo-fuligineis, 1-guttulatis. Ob perithecia imperfecta forte huc pertinet *Papularia concentrica* Kickx Flandr. II. p. 90, nec *C. concentricum* Auct. — *C. herbarum* Cooke et Ellis Grevill. VI. p. 1 affine est, sed distingui potest.

68. Coniothyrium Henriquesii Thüm. Contr. Myc. Lus. n. 338. — 1790 Peritheciis amphigenis, magnis, hemisphærico-emersis vel vix conoideis, primo epidermide tectis, postremo cuticula dilacerata cinctis, atris, in disco orbiculato, magno, elevato, gregarie dispositis vel plerumque solitariis et sine ordine; sporulis bacillaribus vel longe ellipticis, rectis vel interdum subcurvulatis, utrinque subobtusatis, simplicibus, fuscis, 7-8 \(\pi 3\).

Hab. in foliis emortuis Fourcroyæ Sellowii in horto botanico Coimbra in Lusitania (Moller).

69. Coniothyrium biforme Winter Contr. Myc. Lus. n. 790. — Peri- 1791 theciis nunc immersis, demum erumpentibus, usque 300 μ ., nunc superficialibus, 130-140 μ ., subglobosis, nitidis, atris, membranaceis, sub microscopio atro-violaceis; sporulis angulato-globosis, fuscis, 5-7 μ . diam.

Hab. ad folia emortua Fourcroyæ in horto botanico Coimbra in Lusitania.

70. Coniothyrium Agaves (Mont.) Sacc. Phoma Agaves Dur. et Mont. 1792 Fl. Alg. p. 605, Mont. Syll. n. 980. — Gregarium, erumpens, punctiforme, inquinans; peritheciis rotundatis, minutissimis, atris, opacis aut nitidis; sporophoris brevibus; sporulis ovato-globosis, continuis, obscure fuliginosis.

Hab. in foliis emarcidis Agaves americanæ Alger (Durieu).

— An eadem ac var. Agaves Coniothyrii concentrici?

71. Coniothyrium herbarum Cooke et Ellis Grev. t. 96, f. 32. — Pe- 1793 ritheciis convexis, brunneis, primo tectis, membranaceis; sporulis subglobosis, brunneis, 4-5 μ . diam.

Hab. in pedunculis Yuccæ filamentosæ.

72. Coniothyrium Palmarum Corda Icon. Fung. IV. p. 38, t. 8, f. 106. 1794 — Gregarium; peritheciis oblongis, convexis, plicatulis, atris, nitentibus, macula fusca, margine sæpe rubescente insidentibus; sporulis ellipsoideis in sicco coffeæformibus, semipellucidis, 8-10 \(\times 4\), crasse 2-nucleatis, dein obscure fuligineis.

Hab. in foliis languidis vel emortuis Chamæropis humilis in Italia australi, in Sicilia nec non in foliis Phænicis dacty-liferæ in horto botanico Coimbra in Lusitania.

73. Coniothyrium borbonicum Thum. Contr. Myc. Lusit. n. 339. — 1795

Peritheciis epiphyllis, sparsis, minutis, subprominulis, nigris in macula valde irregulari, primo ferruginea, postremo arescendo-cinerescente, magna; sporulis numerosis, ellipsoideis, utrinque obtuso-rotundatis, continuis, enucleatis, e fumoso-fuscis, 6-8 = 4.

Hab. ad folia languida subvivæ Lataniæ borbonicæ (Livistonæ sinensis Hort.) in horto botanico Coimbra in Lusitania (MOLLER).

74. Coniothyrium socium Pass. et Beltr. F. Sic. n. 26. — Peritheciis 1796 sparsis, minutis, subglobosis vel oblongis, primo epidermide immutata velatis, dein denudatis, atris; sporulis ellipticis, olivaceis, 8,5 ≈ 3,5.

Hab. ad folia arida Chamæropis humilis in consortio Coniothyrii Palmarum, Licata in Sicilia.

75. Coniothyrium peradenycum Sacc. Phoma arundinaceum Ces. 1797 Myc. Born. pag. 25, nec Sacc. — Superficiale; peritheciis sparsis, minutissimis, depresso-ellipticis, nigris; sporulis vix 2-4 μ. longis ovalibus, fuscellis, numerosissimis.

Hab. in culmo quodam lignatili decorticato, Peradenya Ceylon.

76. Coniothyrium arundinaceum Sacc. Mich. I. p. 203. — Peritheciis 1798 gregariis erumpentibus, globulosis, papillatis, atris; contextu parenchymatico fuligineo; sporulis ovoideo-oblongis, $4-4\frac{1}{2} \approx 2^{1}/_{2}-3$, 1-2-guttulatis, olivaceis, sterigmatibus filiformibus, brevibus, $10-15\approx 2^{1}/_{2}$, suffultis.

Hab. in culmis putrescentibus Arundinis Donacis, Patavii

in Italia bor. (Bizzozero). — Species bene distincta!

77. Coniothyrium melasporum (Berk.) Sacc. Darluca melaspora Berk. 1799 in Cooke Præcursor Monogr. Henders. p. 26. — Pustulis prominulis, nigris; sporulis oblongis trinucleatis; cirris nigris. 12 = 5.

Hab. in culmis Sacchari officinarum in Australia.

IV. In Acotyledoneis inque stercore.

78. Conicthyrium epimyces Sacc. et Speg. Mich. I. p. 206. — Peri- 1800 theciis sparsis gregariisque, globoso-lenticularibus, 150-200 μ . d., initio-erumpentibus, pertusis; sporulis oblongo-ovoideis obtuseque angulosis, $4-6 \approx 2^{1}/_{2}-3$, 1-2-guttulatis olivaceo-fuscidulis.

Hab. in cute Polypori squamosi putris, Conegliano in Ita-

lia boreali (Spegazzini).

79. Coniothyrium coprophilum Speg. F. Arg. Pug. III. n. 115. — 1801 Peritheciis superficialibus, hinc inde glomerulatim gregariis, udis globosis, siccis, cupulato-collapsis, ostiolo impresso pertusis, mi-

nutis, 80-90 μ . d., membranaceis; contextu parenchymatico, atrofuligineo; sporulis globosis vel ellipticis, quandoque basi angulatoacutatis, 6-7 \approx 4-6, fuligineis.

Hab. in stercore canino putrescente in hortis á la Recoleta in Repub. Argentina. — A Sporormia minima obsoleta toto cœlo diversa!

- HARKNESSIA Cooke Grev. IX. p. 85, Wint. Hedw. 1883, p. 19. (Etym. a cl. doct. H. W. Harkness, botanico Californiæ). Perithecia globoso-conica, apice poroso-lacerata; contextu pseudo-parenchymatico. Sporulæ ellipticæ vel subglobosæ, continuæ, opacæ, deorsum in pedicellum hyalinum articulatum productæ, demum in grumulos atros erumpentes. Habitus Melanconii, sed, teste Winter, verum perithecium adest.
- 1. Harknessia Eucalypti Cooke Grev. 9, p. 81 (1881) Wint. Hedw. 1802 1883, p. 21. Peritheciis innatis v. superficialibus, globosis, flavo-brunneis, epiphyllis, vel caulinis; orificio orbiculari, margine elevato, hic illic dentato-lacerato; sporulis late ellipticis, atro-fuscis, 20-30 ≈ 11-14, deorsum pedicellatis; pedicellis æqualibus linearibus, hyalinis, dein fuscidulis, 40-45 μ. longis.

Hab. in foliis et ramulis Eucalypti Globuli in California Americæ borealis.

2. Harknessia uromycoides Speg. Arg. IV. n. 309, Melanconium uro- 1803 mycoides Speg. F. Argent. Pug. I. n. 40 (1880) Harknessia Molleriana Wint. Hedw. 1883, p. 20, Harknessia longipes Harkn. F. Calif. p. 13 (1884). — Peritheciis gregariis erumpentibus, semimembranaceis; orificio orbiculari, margine denticulato elevato; sporulis ellipsoideo-oblongis, sæpe curvis, apiculatis, 19-27 ≈ 10-12, atro-olivaceis, 2-nucleatis, apice hyalino nitido; basidiis persistentibus, flexuosis, hyalinis, angustis, sporula 4-6-plo longioribus, nempe usque 140 μ. longis.

Hab. in ramis emortuis foliisque Eucalypti odoratæ, Piedmont Californiæ et in Argentina. — Species basidiis prælongis mox distinguenda.

HYPOCENIA B. et C. North Am. Fungi n. 423bis (Etym. hypo sub et cenos vacuus, ob cellulam basilarem in perithecio). — Perithecia crassa obtusissima, cellulam unicam semiorbicularem includentia. Sporulæ fusoideæ continuæ endochromate utrinque retracto, pallide brunneæ. — Hypocenia herbarum C. et H. ad Stagonosporam spectare videtur.

Hypocenia obtusa B. et C. North Am. Fung. n. 423^{bis}. — Peri- 1804 theciis erumpentibus, singulis binisve sociatis, epidermide basi cinctis, obtusissimis; contextu celluloso, denso, intus pallido, semiorbiculari; loculo in basi perithecii conformi; sporulis breve fusoideis, 20 ≈ 4, endochromate utrinque retracto, pallide rubido-bruneis.

Hab. in ramis arborum in Carolina inferiore et Pensylvania Americæ borealis.

LEVIEUXIA Fr. Fungi Natal. p. 32 et Summa p. 415 (Ftym. a cl. mycol. gall. *Lėvieux*). — Perithecia liberata, verticalia, stipitato-clavata, carbonacea, rigida, astoma, superne demum rimose-diffracta, frustulatim decidua. Sporulæ sporophoris pedicellatæ, opacæ (ut nulla septa conspicua) in discum, demum pulverulentum, stipatæ.

1. Levieuxia natalensis Fr. Fungi Natal. p. 32. — Peritheciis oblon- 1805 gis basi in stipitem constrictis glabris, atris, catervatim nascentibus; disco plano convexo.

Hab. in corticibus promont. Natal (WAHLENBERG).

CHÆTOMELLA Fuck. Symb. p. 402 (Etym. a Chætomio, quod habitu imitatur). — Perithecia superficialia v. brevissime pedicellata, astoma, ubique sparse setosa. Sporulæ basidiorum simplicium v. ramosorum apicibus, simplices, cylindraceæ vel subfusiformes, subcurvatæ, typice coloratæ. — Plures species (Melochæta), hic enumeratæ mihique ignotæ, hyalosporæ sunt; hinc forte ad Pyrenochætam v. affine genus spectare possent.

I. Eu-Chætomella: sporulis olivaceis.

1. Chætomella atra Fuck. Symb. Myc. p. 402. — Peritheciis superficialibus, atro-olivaceis, globosis, dein umbilicatis v. subcupularibus, setosis, astomis, contextu distincte radiatim parenchymatico, virescente-olivaceo; setis paucis, strictis, parce septatis, $110 \approx 8$; sporulis copiosissimis, cylindraceo-fusoideis, $12-15 \approx 2-3$, minute 2-guttulatis, olivaceis; basidiis filiformibus nonnumquam usque $60 \approx 1$ suffultis.

Hab. in culmis, foliis vaginisque Phragmitis, Caricis, Arundinis, Maydis in Germania, Gallia, Italia. — Var. lignico-la Sacc. Mich. I. p. 97: peritheciis demum cupularibus, cæterum typo similibus; sporulis fusiformibus v. subclavulatis, $12-15 \approx 2^{1}/_{2}$,

180**6**

stepius 2-guttulatis, olivaceis, paraphysibus (sterigmatibus?) filiformibus, 60-70 = 1, intermixtis. In ramis decorticatis variis, Selva et Conegliano Ital. bor.

2. Chætomella brachyspora Sacc. et Speg. Sacc. Mich. I. p. 260. M. 1807 V. n. 1329. — Peritheciis sparsis, subsuperficialibus e globoso depressis, vix ½ mill. diam., astomis, nigris, undique setulis rigidulis, parce septatis, 100-150 × 8-10, fuscis, sursum pallidioribus apiceque obtusiusculis, vestitis; contextu perithecii laxiuscule parenchymatico fusco; sporulis ovato-oblongis, utrinque rotundatis v. subtruncatis, 5-6 × 3, obsolete 2-guttulatis, olivaceis, e strato proligero celluloso, subhyalino immediate (?) oriundis.

Hab. in cortice duriore Catalpæ syringifoliæ, Conegliano Ital. bor. (Spegazzini).

II. Melochæla: sporulis hyalinis.

3. Chætomella oblonga Fuck. Symb. Myc. p. 402, Tab. III. fig. 3. — 1808 Peritheciis sparsis, $\frac{1}{3}$ lineam longis, oblongis, basi excavatis (ut a latere visa reniformia appareant) brevissime nigro-pedicellatis, atro-fuscis, pilis paucis, simplicibus, septatis, subclavatis, strictis, concoloribus, perithecii diametrum transversalem subæquantibus obsitis; sporophoris iterate ramosis, totis 40 μ . alt.; sporulis cylindraceis, perparum curvațis, $11 \approx 2$, hyalinis.

Hab. in foliis putrescentibus Rosæ rubiginosæ, rarius in Rhenogovia. — V. major: peritheciis majoribus. In cortice interiore Quercus pr. Münster Germaniæ.

4. Chætomella Artemisiæ Cooke in Grevillea 1882, p. 123. — Epi- 1809 phylla; peritheciis sparsis, subglobosis, atro-brunneis, pilis tenuibus, fuscis, superne ornatis; sporulis ellipticis, hyalinis, 8-10 ≥ 4.

Hab. in foliis vivis Artemisiæ afræ, Inanda, Natal (Wood).

5 Chætomella Stevensoni Ell. in Torr. Bot. Club. 1882, pag. 133. — 1810 Peritheciis ovato-globosis, 65-85 μ . diam., setosis setis rectis, rigidis, nigricantibus $120-190 \approx 7$, sursum attenuatis, septatis, septis vero ob opacitatem parum conspicuis; sporulis fusiformibus, curvatis, nucleatis, subhyalinis, $19-26 \approx 2,5-3$, basidiis ramulosis suffultis.

Hab. in foliis Dentariæ laciniatæ, Fairmount Park, Philadelphia Amer. bor. (Steveson).

6. Chætomella raripila (Mont.) Sacc. Chætomium raripilum Mont. 1811 Pl. Cell. Cent. VII. p. 339. — Erumpens, sparsa, libera; peritheciis hemisphærico-globosis, submembranaceis, fuscis, contextu qua-

drate celluloso-reticulato, apice collabenti-depresso, tandem rupto, pilis raris brevibus hispido; nucleo gelatinoso floccoso; sporulis oblongo-linearibus, $13-14 \approx 2$, hyalinis, sporophoris suffultis.

Hab. in caulibus emortuis Polygoni avicularis in Gallia merid. (Castagne).

7. Chætomella Andropogonis C. et E. Grevillea. — Sparsa; perithe- 1812 ciis brunneis, ½ mill. diam., pilis rigidis erectis ornatis; sporulis ovatis, 6 = 5, hyalinis (semper?).

Hab. in foliis Andropogonis, New Jersey Amer. bor.

HAPLOSPORELLA Speg. F. Argent. III. p. 34. (Etym. haplos simplex, et spora), Podosporium Sacc. et Schulz. F. Slav. n. 29, non Bon. nec Schwein. — Perithecia in cæspites erumpentes stromateque suffultos aggregata, atra, subcarbonacea, papillata v. stromate verruciformi immersa. Sporulæ ovoideæ v. oblongæ, continuæ, fuligineæ, basidiis bacillaribus suffultæ. — Est quasi Dothiorella phæospora v. Sphæropsis botryoso-congesta.

1. Haplosporella hesperidica Speg. Fungi Argent. IV. n. 299, Ann. 1813 de la Sociedad Cientifica Argent. XIII. 1, 1882. — Stromate tuberculiformi, hemisphærico-subconoideo, parvulo, olivaceo, squarruloso, primo tecto, dein epidermidem rumpente eaque fissa cincto; peritheciis monostichis, 3-7 aggregatis, globosis, atris, membranaceo-crassiusculis; contextu parenchymatico, indistincto, olivaceo; ostiolo minuto vix stromatis superficiem attingente; sporulis ellipticis, rectis vel inæquilateralibus, utrinque obtusissimis, 22-25 \$\times 9-11\$, continuis, opace fuligineis.

Hab. in ramis foliisque dejectis Citri Aurantii, Parque de Palermo prope Buenos Ayres (C. Spegazzini).

2. Haplosporella chlorostroma Speg. Fung. Arg. Pug. III. p. 34. — 1814 Peritheciis globosis, atris, carbonaceis, ¹/₄-¹/₅ mill. diam., stromate atro, extus sordide viridi, pulvinato, irregulari, ¹/₂-l¹/₂ mill., erumpente immerso-stipatis; sporulis ellipticis v. elliptico-cylindraceis, utrinque obtusissime rotundatis, 18-22 ≈ 10, vivide fuligineis, in sterigmatibus parvis, mammoso-conicis acrogenis, paraphysibus triplo longioribus obvallatis.

Hab. in ramulis emortuis Robiniæ Pseudacaciæ prope la Recoleta Argentinæ.

3. Haplosporella cæspitosa (B. et Br.) Sacc. Diplodia cæspitosa B. 1815 et Br. Ann. N. H. n. 409. — Cæspitosa, nigra, erumpens; perithe-

ciis globosis; ostiolo papillato; sporulis oblongis, flavidis, muco obvolutis, eguttulatis, continuis.

Hab. in ramis Hederæ, King's Cliffe in Britannia.

4. Haplosporella Solani (Pass.) Sacc. Diplodia Solani Pass. Funghi 1816 Abiss. n. 39. — Stromate carbonaceo-homogeneo, corticem sublevante et tandem stellatim v. lineatim rumpente, absque peritheciis distinctis; sporulis oblongo-ellipsoideis, continuis, castaneo-fuscis, 14-16 ≈ 8, paraphysibus subclavatis plus minus longis immixtis.

Hab. in caule lignescente Solani cujusdam spinosi, Keren in Abyssinia (Beccari).

5. Haplosporella opaca (C. et E.) Sacc. Sphæropsis opaca C. et Ell. 1817 in Grevillea. — Peritheciis congestis, in pustulas minimas confluentibus, epidermide cinctis, nec papillatis, dothideoideis; sporulis ellipticis, obtusis, brunneis, 25-30 ≈ 12.

Hab. in caulibus Artemisiæ, New Jersey Amer. bor.

6. Haplosporella Ribis Sacc. Podospora Ribis Schulz. et Sacc. F. 1818 Slav. n. 29, nec Fuck. quod Dothiorella. — Stromate pulvinato, subcutaneo-erumpente, apice convexo colliculoso, atro, 1/2-1 mill. lat., intus perithecia sive loculos pallidos monostichos plures fovente; sporulis obovatis, utrinque obtusiusculis, 12-18 ≈ 6,5-10 continuis fuligineis; basidiis sporula paulo brevioribus, bacillaribus, hyalinis.

Hab. in ramis corticatis Ribis rubri pr. Vinkovce. — Videretur fere Fuckelia Ribis sed fructificatio aliena.

7. Haplosporella Nerii Sacc. Podospora Nerii Schulz. et Sacc. F. 1819 Slav. n. 30. Schulz. Ill. Fung. Slav. n. 930. — Stromate verrucoso subcutaneo-erumpente, atro, ½-1 mill. diam., intus perithecia sive loculos plures, ovatos v. subglobosos, pallidos fovente; sporulis ovatis v. ellipsoideis continuis, 14-19 ≈ 8, utrinque rotundatis ochraceo-fuligineis; basidiis sporulà fere duplo longioribus, bacillaribus, hyalinis.

Hab. in ramis corticatis Nerii Oleandri pr. Vinkovce Slavoniæ.

8. Haplosporella connata (Ger.) Sacc. Sphæropsis connata Gerard 1820 in Grevillea. — Peritheciis 2-4 connatis, erumpentibus, obtusis apice perforatis; sporulis ellipticis, brunneis, 22 = 9.

Hab. in ramis arborum, New York Americæ borealis. — Habitus fere valsoideus.

9. Haplosporella dothideoides Sacc. Sphæropsis? dothideoides Sacc. 1821

et Roum. Mich. II. p. 348. - Stromatibus pulvinatis epidermide atro-nitida velatis, intus perithecigeris?; sporulis e globoso ellipsoideis, 20 = 17, biguttatis, ochraceo-fulvis.

Hab. in costa foliorum Chamæropis humilis, socia Leptosphæria Debeauxii, Alger. (O. Debeaux). - Fungus anceps in statu perfecto denuo explorandus. Dothidea Chamæropis Cooke (Cfr. Syll. II. p. 626) forte huc spectat.

10. Haplosporella Cesatii Sacc. Sphæropsis undulata Ces. Myc. Born. 1822 p. 24, nec B. et C. - Peritheciis cæspitose aggregatis Cucurbitariam simulantibus, nigris, vertice depresso, humectatis, carnosis; sporulis ovalibus, exosporio crasso, fuscellis, simplicibus, guttula ampla centrali, raro binis, 7 = 4.

Hab. ad cortices Borneo, Sarawak. - Alterum specimen habitu simile sporulas hyalinas, curvulas, cylindraceas, 31/2, gerit (« ergo Cytospora? »).

WEINMANNODORA Fr. Summa p. 409 (Etym. a J. A. Weinmann botanico et mycologo rossico). — Stroma hemisphæricum, liberum, carbonaceum, vertice ostiolo simplici pertusum; nucleo e columella centrali (alba) radiante ad medium in cellulas elongatas circinantes dimidiatas diviso. Sporulæ globosæ, simplices, nigræ, majusculæ fere Melanconii.

1. Weinmannodora ruthenica Fr. Summ. p. 409. — Fungus summo. 1823 pere insignis, lignatilis, capsulæ Silenes ad instar ad medium 5locularis.

Hab. in lignis in Rossia (Weinmann). — Characteres generis.

CYTOPLEA Bizz. et Sacc. in Fl. critt. Ven. (Etym. cytos cellula [loculus] et pleon plus). - Stroma subsuperficiale pulvinatum, confluendo effuso-crustaceum, intus monostiche multi-locellatum; loculis cuboideis. Sporulæ ovoideo-oblongæ, continuæ, olivaceo-fuligineæ, initio catenulatæ, stipitatæ et filiformi-paraphysatæ.

1. Cytoplea arundinicola Bizz. et Sacc. l. c. — Stromate ut supra 1824 descripto; loculis dense stipatis, atris, 250-260 = 190-200, e pariete interiore ubique sporigeris; basidiis bacillaribus, simplicibus, hyalinis, 14-18 μ . longis; paraphysibus filiformibus, $40-60 \approx 1,2-2$; sporulis 2-nucleatis, simulateque 1-septatis, copiosissimis, $4-5 \approx 3$.

Hab. in culmo putri et terra obducto Arundinis Donacis in horto patavino Ital. bor.

REPERTORIUM

SPHÆRIOIDEARUM PHÆOSPORARUM

SECUNDUM MATRICES

Obs. C. indicat Coniothyrium. — Ch. Chætomella. — Cy. Cytoplea. — H. Harknessia. — Ha. Haplosporella. — Hy. Hypocenia. — L. Levieuxia. — S. Sphæropsis. — W. Weinmannodora.

N. 1635 -- 1824 citantur 635 -- 824

Abies - C. 770, 771, 772, Acacia — C. 737, 738, Acer - S. 651. Agave — C. 789, 792. Ailanthus — S. 652. — C. 723. 725. Albizzia — C. 725, 764. Alnus - S. 679. 686. Amorpha — C. 723. Ampelopsis - C. 724. Andropogon - Ch. 812. Angelica - C. 780. Araucaria - C. 777. Arauja — S. 694. — C. 723. Arbutus - S. 673. Arctostaphylos - S. 672. Aristolochia — S. 704. Armeria - C. 783. Artemisia — Ch. 809. — Ha. 817. Artocarpus - S. 693. Arundo — S. 713. — C. 798. — Ch. 806. — Cy. 824. Asclepias - C. 787.

Atriplex - C. 784.

Bambusa — S. 711. 712. Baptisia — S. 705. Bauhinia — C. 735. Berberis — C. 724. 725. 729. Betula — S. 683. Brassica — C. 777. Broussonetia — C. 762. 763. 764. Bupleurum — C. 743.

Callicarpa — C. 748.
Calycanthus — C. 723.
Carex — Ch. 806.
Carpinus — S. 687. — C. 723.
Carya — S. 680. 681.
Cassia — S. 636.
Catalpa — C. 723. — Ch. 807.
Celastrus — S. 653. 654.
Celtis — S. 689. — C. 723.
Chamserops — C. 794. 796. — Ha. 821.

Citrus — S. 661. 662. — C. 723. 724. 747. — Ha. 813.

Clethra — S. 674.

Cornus — S. 663. — C. 742.

Cratægus — S. 642. Cycas — — C. 723.

Cyclonia S 650

Cydonia — S. 650.

Cytisus — C. 732. 734.

Dentaria — Ch. 810. Diospyros — S. 675.

Dracæna — S. 715.

Elæagnus — C. 743.

Eucalyptus — S. 655. — C. 723. H. 802. 803.

Euphorbia — C. 785.

Evonymus — C. 723. Excæcaria — S. 695.

Fagus — S. 688. — C. 759.

Figure - C. 756.

Fourcroya — C. 789. 790. 791. Fraxinus — S. 677. 678. 679.

Galega — C. 730. Gleditschia — S. 637. — C. 725.

Hedera — S. 656. — C. 723. 728. Ha. 815.

Helianthemum — C. 724. Hymenæa — S. 635. Hypoxylon — S. 721.

Iasminum - C. 740. 741.

Ilex — S. 660.

Isopyrum - S. 706.

Iuglans — S. 689. — C. 736. 764.

Latania — C. 795.

Laurus — S. 664. 665.

Lonicera — S. 667. 668. — C. 723.

Lupinus — C. 779.

Maclura — S. 685.

Magnolia — S. 640. — C. 723.

Malva - S. 708.

Menispermum — S. 707...

Morus — S. 684. — C. 736.

Musa - S. 718.

Nerium — Ha. 819. Nyssa:— S. 657.

Oryza — S. 709, 710.

Paliurus — C. 723. 751.

Parietaria - C. 786.

Parkinsonia — S. 639.

Philadelphus — C. 723.

Phœnix — C. 794.

Phragmites - Ch. 806.

Pinus — S. 691. 692. — C. 768. 769.

Pirus — S. 646. 647.

Pisum - C. 778.

Plantago — C. 783.

Platanus — S. 682. — C. 760. 761.

Polygonum — Ch. 811. Polyporus — C. 800.

Populus — C. 723. 755. 757.

Prunus — S. 642, 643, 644. — C. 725.

Quercus — S. 689. 690. — C. 736. 752. 753. — Ch. 808.

Robinia — C. 724. 736. 739. — Ha. 814.

Rosa — S. 649. — C. 724. 726. — Ch. 808.

Rhamnus - C. 725.

Rhus — S. 657. 659. — C. 723. 764.

Ribes — Ha. 818.

Rubus — S. 648. — C. 724. 746. 758.

Ruscus — S. 716.

Saccharum - C. 799.

Salix - C. 758.

Sambucus — S. 669. 670. 671. — C. 723. 730.

Saponaria — C. 781.

Sarothamnus — S. 638. — C. 723. 731.

Scrophularia — C. 782.

Solanum — Ha. 816.

Sophora — C. 723.

Syriaga — S. 676. — C. 725.

Tamarix — C. 749. Thrinax — S. 719. Thuja — C. 766. Tilia — S. 641. — C. 750. 751. Tricoryne — S. 720. Ulmus — S. 722. — C. 725. 765.

Vinca — S. 703. Vitis — S. 666. — C. 745.

Wistaria — C. 723.

Yucca — S. 717. — C. 789. 793.

Zea - S. 714. - Ch. 806.

Sect. 3. Phæodidymæ Sacc.

Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, fuscæ.

Clavis analytica generum.

§ Perithecia discreta.

† Perithecia tecta vel erumpentia.

Diplodia. Perithecia glabra; sporulæ strato mucoso carentes.

Macrodiplodia. Perithecia glabra; sporulæ strato mucoso obvolutæ.

Chætodiplodia. Perithecia pilosa; sporulæ strato mucoso carentes.

11 Perithecia lignicola, subsuperficialia.

Diplodiella. Perithecia subcarbonacea, papillata.

§§ Perithecia cæspitosa.

Botryodiplodia. Perithecia cæspitoso-erumpentia.

DIPLODIA Fr. Summa Veg. Scand. p. 416. (Etym. diplos duplex, obsporulas didymas), Sporocadus Corda p. p. — Perithecia subcutaneo-erumpentia, subcarbonacea, atra, typice papillata, pertusa. Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, fuscæ. Basidia bacillaria, simplicia, hyalina. — E genere primario sepositæ sunt: species peritheciis superficialibus (Diplodiella); peritheciis hirsutis (Chælodiplodia); peritheciis acervatis (Bolryodiplodia); sporulis mucosis (Macrodiplodia); sporulis hyalinis (Diplodina).

I. In ramis Dicotyledonearum lignosarum.

1. Diplodia Anonæ Sacc. Mich. II. p. 269. — Peritheciis tectis, dein 1825 peridermio fisso semi-erumpentibus, majusculis, in acervulos oblongos, aterrimos dense congregatis, globulosis, brevissime papillatis; sporulis oblongis, diu hyalinis, continuis, guttulatis, dein 1-septatis vix constrictis, 28 × 11-13, olivaceo-fuscis.

Hab. in ramis crassioribus Anonæ trilobæ in horto patavino Ital. bor.

2. Diplodia brachyspora Sacc. Mich. II. p. 106. — Peritheciis spar- 1826 sis, corticolis, initio velatis, globoso-depressis, ¹/₇ mill. diam.; contextu laxe parenchymatico fusco-melleo; sporulis breve obovatis, apice rotundatis, 9 ≈ 7. 1-septatis, vix constrictis, fusco-cinnamomeis, subsessilibus (idest stipite apiculiformi).

Hab. in ramis Berberidis vulgaris et B. buxifoliæ pr. Rouen in Gallia (LETENDRE).

3. Diplodia syriaca Sacc. M. V. n. 1202, Mich. I. p. 255. — Peri- 182 theciis plerumque cæspituloso-aggregatis, tectis, dein, epidermide fissa, semierumpentibus, globoso-depressis, obtuse papillatis, nigerrimis corticeque nigricante exceptis; contextu crassiusculo, sed laxe parenchymatico, fuligineo; sporulis oblongis, initio stipitellatis, continuis, 25 × 10-11 nubilose hyalinis, tandem constricto-1-septatis, 20-24 × 8-10, fuscis.

Hab. in ramis corticatis Hibisci syriaci, Padova in Italia boreali.

4. Diplodia hibiscina C. et Ell. in Grev. — Peritheciis atris, depres- 1828 sis, apidermida cinctis, sparsis vel congestis; sporulis ellipticis, vix constrictis, brunneis, inæqualibus, 25-30 ≈ 12.

Hab. in ramis Hibisci, New Jersey in Amer. bor.

5. Diplodia Tiliæ Fuck. Symb. p. 394. — Peritheciis sparsis, tectis, 1829 media magnitudine, globosis, atris, ostiolis papillæformibus, erumpentibus; sporulis in cirrum longissimum, atrum, gracile expulsis, oblongis, didymis, medio vix constrictis, atro-fuscis, 22 = 9.

Hab. in ramis siccis Tiliæ parvifoliæ, in Rhenogovia et in Vogesis.

6. Diplodia Scheidweileri (West.) Sacc. Mich. II. p. 349. Sphæropsis 1830 Scheidweileri West., Kickx Flandr. I. p. 401. — Peritheciis globuloso-depressis subcutaneis, erumpendo prominulis, papillatis, dein vertice circumscissis; sporulis diu continuis hyalinis, denique constricto-bilocularibus, 25 = 15. fuligineis, stipitellatis.

Hab. in cortice emortuo Tiliæ in Belgio et Gallia.

7. Diplodia pustulosa Lev. Ann. Sc. nat. 1846, p. 291. — Peritheciis 1831 sparsis vel confertis, globoso-papillatis, subcutaneo-erumpentibus; ostiolo conico, deciduo; sporulis oblongo-ellipsoideis, obtusis, 1-septatis, fuligineis. 2-guttatis; basidiis filiformibus,/brevibus.

Hab: in cortice emortuo Tilize in Gallia et Belgio.

8. Diplodia Aurantii Catt. Micet. Agrum. p. 9, Sporocadus Aurantii 1832 Garov. Catt. 1875, Diplodia Citri Sacc. Fungi Ven. novi vel crit., Ser. V., 1876, n. 360. — Peritheciis sparsis vel laxe gregariis, primum epidermide tectis, demum erumpentibus, diu persistentibus, globoso-conicis, carbonaceis, aterrimis, majusculis, $180-200 \mu$. diam.; sporulis ellipticis, bilocularibus, ad septum paullum constrictis, utrinque rotundatis, brunneo-fuligineis, $18-21 \approx 8-10$: basidiis hyalinis, crassiusculis, $12-14 \approx 4-5$.

Hab. in foliis ramulisque corticatis Citrorum, sat frequens, Vittorio pr. Treviso (SACCARDO): Padova (PENZIG); in Italia merid. (CATTANEO).

9. Diplodia hesperidica Speg. in Fung. Arg., Pug. IV. n. 300. — Pe- 1833 ritheciis parvulis, 120-150 µ. diam., sparsis, subglobosis, primo tectis, dein erumpentibus, atris, rugulosis, glabris, membranaceosubcarbonaceis, ostiolo vix papillulato pertusis; sporulis ellipticis vel ovatis, 28-30 = 10-11, rectis vel inæquilateralibus, medio 1septatis, non constrictis, opace fuligineis.

Hab. in ramis et foliis dejectis Citri Aurantii L. Parque de Palermo, pr. Buenos-Ayres in Argentina (C. Spegazzini).

10. Diplodia subtecta Fr. Summa Veg. Scand. p. 417. D. Aceris Fuck. 1834 Symb. Myc. p. 171. D. acerina Lév. in Ann. Sc. nat. 1846, p. 290. - Peritheciis globoso-papillulatis, subcutaneo-erumpentibus, in series lineares ordinatis, atris; sporulis ellipsoideo-oblongis, 1septatis, $20 \approx 10$, fuligineis.

Hab. in ramulis corticatis Aceris campestris in Gallia, Germania, Italia, Suecia. - Pycnidium Cucurbitariæ protractæ.

11. Diplodia atrata (Desm.) Sacc. M. V. n. 1204, Sphæria atrata Desm. 1835 Not. IX. p. 15, 1842. Diplodia Negundinis Thum. Exsice., D. Aceris v. Negundinis Thum. F. A. n. 1289. Sphæria Negundinis Opiz 1852 sec. Thum. — Peritheciis minutis dense sparsis, tectis, globosis, subnitidis, ostiolo papillato pertusis; nucleo albo, dein fuligineo; sporulis ovato-oblongis, constricto-l-septatis, opace fuligineis, $22-25 \approx 11-12$, dein effuso-inquinantibus.

Hab. in ramis emortuis Aceris Negundinis in Gallia, Italia, Germania, Austria.

12. Diplodia extensa C. et Harkn. in Grev. 1881, p. 83. - Grega- 1836 ria; peritheciis subglobosis, atris, sub cuțiculă nigrificata nidulantibus; sporulis ellipticis, uniseptatis, brunneis, medio constri2 ctis, $28 \approx 13$.

Hab. in ramis Aceris macrophylli in California Americæ borealis.

13. Diplodia Æsculi Lév. Ann. Sc. nat. 1846, p. 290. — Peritheciis 1837 globulosis, innatis, nigris, epidermide fissa tectis, poro pertusis; sporulis ellipsoideo-oblongis, obtusiusculis, constricto-l-septatis, biguttatis, fuligineis, $22-24 \approx 8$.

Hab. in ramis Æsculi Hippocastani et Æ. Paviæ in Gallia, Italia, Belgio, Britannia, Germania.

14. Diplodia Kælreuteriæ Sacc. Mich. II. p. 60. — Peritheciis globu- 1838

Sphærioideæ, Phæodidymæ, Diplodia.

332

losis, papillatis, subtectis; sporulis oblongo-ellipsoideis, diu continuis, 25 = 14, stipitellatis.

Hab. in ramis corticatis Kælreuteriæ paniculatæ in Gallia austr. (Roumeguère).

15. Diplodia Bacchi Passer. et Thum. Pilze des Weinstockes, Wien 1839 1878, p. 140. — Peritheciis magnis, gregariis, primo epidermide tectis, demum erumpentibus, liberis, solitariis vel confluentibus, globosis, asperis, opaco-atris; sporulis oblongis v. ellipsoideis, utrinque late rotundatis, medio septatis, non constrictis, enucleatis, 16-20 = 8-12, dilute fuscis, impellucidis.

Hab. in sarmentis aridis Vitis viniferæ, Parma Ital. bor. (Passerini).

16. Diplodia interrogativa Thüm. et Pass. Thüm. Pilze des Weinsto- 1840 ckes, Wien 1878, p. 139. — Peritheciis minutis, solitariis, plerumque lineari-dispositis, prominentibus, globosis, atris; sporulis forma variis, ellipsoideis, utrinque rotundatis, raro ovatis vel globosis, plerumque integris, sed etiam septatis, ad septa non constrictis, fusco-griseis, 16-22 ≈ 8-12.

Hat. in sarmentis aridis Vitis viniferæ, Parma Ital. bor. (Passerini).

17. Diplodia viticola Desm. Ann. Sc. nat. 1838, p. 311. — Perithe- 1841 ciis sparsis v. seriatim gregariis, globulosis, papillulatis, subastomis, nigris; sporulis ovoideo-ellipsoideis v. oblongis, 20-22 ≈ 10-12, denique constricto-1-septatis, fuligineis, bi-nucleatis.

Hab. in ramis Vitis viniferæ in Gallia, Belgio, Germania,

Italia, Britannia, America boreali.

18. Diplodia vineæ Pass. et Beltr. Fung. Sic. n. 27. — Peritheciis 1842 sparsis vel gregariis, sæpe seriatim dispositis, tectis, demum liberis, rugulosis, atris, nucleo albo e paraphysibus (vel sporophoris?) formato farctis; sporulis parvulis, illis Diplodiæ viticolæ Desm. dimidio minoribus, ellipticis, non vel plus minusve ad septum constrictis, castaneo-fuscis.

Hab. ad sarmenta arida Vitis viniferæ, Licata in Sicilia.

19. Diplodia ampelina Cooke Rav. Fung. Amer. n. 149, et in Grevil- 1843 lea. — Erumpens, subgregaria; peritheciis atris, primum tectis, demum liberis, hinc inde congestis, obturbinatis, leniter rugosis; sporulis ellipticis, nec constrictis, uniseptatis, brunneis, 25-28 = 12.

Hab. in cortice Vitis, Aiken in Carolina australi. — Diversa dicitur a Dipl. Bacchi.

20. Diplodia ailanthina Speg. Mich. I. p. 484. — Peritheciis subglo- 1844

bosis, olivaceo-fuscis, papillatis, 200-250 μ . d., subepidermicis vel ligno decorticato parallele dispositis, ostiolo perforatis; sporulis fuligineis, $20 \approx 7$, 1-septatis ad septum non vel vix constrictis.

Hab. in ramulis emortuis Ailanthi glandulosæ, Conegliano in Italia bor.

21. Diplodia Staphyleæ Sacc. et Penz. in Mich. II. pag. 632. — Pe- 1845 ritheciis gregariis, globoso-depressis, obtusis, subcutaneis, ostiolo vix erumpente, ½ mill. diam.; sporulis oblongis, uniseptatis, vix constrictis, 25-27 \approx 10-11, utrinque rotundatis, guttulatis, fuligineis.

Hab. in ramulis corticatis Staphyleæ pinnatæ, Saintes in Gallia (Brunaud).

22. Diplodia ramulicola Desm. Ann. Sc. nat. 1850, p. 113. D. Evo. 1846 nymi Fuck. nec West. — Peritheciis innatis, prominulis, numerosis, minutis, dense sparsis, globoso-depressis, nigris, $\frac{1}{4}$ mill. diam., opacis, epidermide tectis; ostiolis papillatis; nucleo gelatinoso, initio albo; sporulis initio magnis, ellipsoideis, fere hyalinis, $30 \approx 10$, denique subclavatis, constricto-1-septatis, $24 \approx 10$, fuligineis.

Hab. in ramulis emortuis corticatis decorticatisque Evonymi europæi, nec non Ev. japonici in Italia, Gallia, Germania.

23. Diplodia Cassinopsidis Kalch. et Cooke in Grev. 1880, p. 19. — 1847 Sparsa, epidermide nigrificata tecta, nitida, centro pertusa; peritheciis subconicis; sporulis ellipticis, uniseptatis, nec constrictis, fuscis, 22 = 10.

Hab. in ramis Cassinopsidis capensis in Africa australi.
Habitus Pemphidii.

24. Diplodia ilicicola Desm. Ann. Sc. nat. 1838, p. 311, Oudem. Mat. 1848 Myc. Néerl. II. p. 17, t. IV. f. 1. — Peritheciis subcutaneis translucentibus, gregariis, globulosis, ostiolo papillato erumpente; sporulis cylindraceo-oblongis, apice rotundatis, 20-25 ≈ 9-10, 1-septatis, leniter constrictis, fuligineis, initio hyalino-stipitatis.

Hab. in ramis Ilicis Aquifolii in Britannia, Hollandia, Gallia, Belgio, Italia, Amer. bor.

25. Diplodia clandestina Dur. et Mont. Fl. Alg. p. 575 et Syll. Crypt. 1849 n. 953. — Peritheciis inuatis globosis sublocularibus, intus atris, epidermide (semper incolumi) tectis eidemque arcte adhærentibus; sporulis oblongis, magnis, fuscis, bilocularibus, subcirrose expulsis, 30 ≈ 10.

Hab. in ramulis Rhamni Alaterni, La Calle (Durieu). — Dipl. Rhamni Alaterni Grogn. in F. Gall. n. 219, in ramis Ala-

terni, Autun, vix recedit, sporulis paulo crassioribus, $30 \approx 15$. — β . **foliorum** Sacc. Mich. II. p. 537: peritheciis gregariis innato-erumpentibus, minoribus; sporulis oblongis, ad septum denique constrictis, $20-22 \approx 9-12$, initio stipitellatis, fuligineis. In foliis R hamni Alaterni in Gallia et Italia.

26. Diplodia Frangulæ Fuck. Symb. myc. p. 174. — Peritheciis spar- 1850 sis cæspitosisve, media magnitudine erumpentibus, atris, globosis, papillatis; sporulis oblongis, medio vix constrictis, fuscis, 24 ≈ 10.

Hab. in ramis corticatis Rhamni Frangulæ in Germania, Italia. — Pycnidium Cucurbitariæ Rhamni. — β. alpina Sacc. Mich. II. p. 349. Peritheciis hinc inde aggregatis, erumpentibus; sporulis ovoideis, deorsum acutiusculis, 15-16 ≈ 8, uniseptatis, olivaceo-fuligineis, initio stipitellatis. — In ramis corticatis Rhamni alpini in Gallia meridionali.

27. Diplodia albo-zonata Dur. et Mont. Fl. Alg. p. 573 et Syll. n. 1851 949. — Peritheciis globosis, sparsis, cortice fisso immersis latentibus, nucleo atro albo-zonato farctis poroque pertusis; sporophoris brevibus, sporulas primo continuas hyalinas, nucleolo granuloso incolori farctas, tandem oblongas fuscas septatas sustinentibus.

Hab. in ramis Zizyphi Loti, Mascara in Algeria (Durieu).

28. Diplodia Paliuri Becc. Erb. critt. ital. Ser. I. n. 1290. — Perithe- 1852 ciis sparsis in cortice nidulantibus, epidermide arcte tectis, vix vertice emergentibus; sporulis oblongis, ovoideis, ovoideo-subacutatis variis, dilute fuligineis, ad septum non constrictis, 25-35 p. longis; nucleo, ut in plerisque Diplodiis, albo-zonato.

Hab. in ramulis emortuis Paliuri aculeati, Vittorio, Conegliano, Pola in Italia bor. nec non in Italia media.

29. Diplodia subsolitaria (Schw.) Curr. Comp. Sphær. p. 284, fig. 198. 1853 Sphæria subsolitaria Schw. in Fr. Elench. II. p. 86. — Peritheciis erumpentibus, subsolitariis, intus albis, ostiolo prominulo; sporulis stipitatis, ellipsoideis v. subpiriformibus, obsolete 1-septatis, dilute fuligineis, 24 \u2224 10.

Hab. in ramis Rhois in Carolina et Pensylvania. — Forte Physalospora subsolitaria (Fr.) Syll. I. p. 443 eadem est, ascis a Friesio cum sporulis male commutatis.

30. Diplodia Rhois Sacc. M. V. n. 1021 et Mich. I. p. 254. — Pe-1854 ritheciis gregariis vel hinc inde aggregatis, epidermide pustulata tectis, tandem erumpentibus, globosis, papillatis, 20-22 \simes 8-10, fuligineis.

Hab. in ramis emortuis Rhois glabræ, jam cultæ, in silva

Montello Ital. bor. socia Botryosphæria Berengeriana. — A Dipl. rhoina satis differre videtur.

31. Diplodia resurgens C. et Hark. in Grevillea n. 64. — Gregaria, 1855 erumpens, demum superficialis; peritheciis globosis, atris, parvulis, nec papillatis, pertusis; sporulis anguste ellipticis, utrinque rotundatis, uniseptatis, nec medio constrictis, læte brunneis, 12-14 × 4.

Hab. in ramis Rhois trilobatæ in California. — A Dipl.

microspora distinguenda.

32. Diplodia rhoina C. et Harkn. Grev. 1880, p. 6. — Sparsa, erum-1856 pens; peritheciis subglobosis, atris; sporulis ellipticis, uniseptatis, non constrictis, brunneis, 25-28 = 10-12.

Hab. in ramulis Rhois trilobæ in California.

33. Diplodia Wistariæ Paul Brunaud in Roum. Revue Mycol. IV. p. 1857 226. — Peritheciis sparsis vel densis, globulosis vel globuloso-depressis, tectis, dein leniter erumpentibus, nigris, lucidis, pertusis, 1/4 mill. diam.; sporulis oblongis, utrinque rotundatis, 1-septatis, sæpe 2-guttulatis, medio constrictis, fuligineis, 20-22 = 8-9.

Hab. in ramulis emortuis Wistariæ sinensis, Saintes

Galliæ.

34. Diplodia Gleditschiæ Pass. Cfr. Sacc. Syll. II. p. 310. — Perithe- 1858 ciis sæpe seriatim gregariis minutis e sphærico depressis, papillatis, atris, subcutaneo-erumpentibus; sporulis didymis, leniter constrictis, 20-25 = 8-10, fuligineis, demum opacis.

Hab. in ramulis corticatis emortuis Gleditschiæ Triacanthi in Italia boreali. — Pycnidium Cucurbitariæ Gleditschiæ. — β. leguminum: peritheciis subsparsis; sporulis obtusis, pedicellatis, constricto-1-septatis, 20-22 = 8, fuligineis. In legumine Gleditschiæ in Germania et Gallia.

35. Diplodia Sophoræ Speg. et Sacc. Mich. I. p. 485 et II. p. 268. 1859

— Peritheciis subcutaneis, epidermide pustulata et infuscata velatis, dein semierumpentibus, gregariis vel hinc inde paucis aggregatis, globosis, mediocribus, atris, ostiolo minuto pertusis, rugulosis, nucleo primitus albido; sporulis oblongis, diu hyalinis, 24 ≈ 10, stipitellatis, tandem constricto-didymis, 20 ≈ 12, pallide fuligineis.

Hab. in ramis Sophoræ japonicæ, Conegliano, Susegana,

Padova in Italia boreali.

36. **Diplodia Pterocarpi** Cooke in Grev. 1882, pag. 76. — Sparsa, 1860 semiimmersa, punctiformis; peritheciis atris, opacis, subglobosis; sporulis ovato-ellipticis, obtusis, uniseptatis, fuscis, vix constrictis, 10-12 ≈ 6-7.



Hab. in cortice Pterocarpi indici, Malacca (MAINGAY).

37. Diplodia profusa De Not. Micr. Ital. Dec. IV. n. 8. — Perithe- 1861 ciis depresse globosis, papillatis, subcutaneo-erumpentibus, gregariis vel hinc inde subcongestis; sporulis obovatis, fuscis, 22 = 12, diu continuis, tandem 1-septatis, leniter constrictis, 20 = 9-10, saturatioribus.

Hab. in ramis corticatis Robiniæ Pseudacaciæ in Italia,

frequentissima. - Pycnidium Cucurbitariæ elongatæ.

38. Diplodia Iulibrissin Speg. Mich. I. p. 484. — Peritheciis primo 1862 sub epidermide nidulantibus, dein erumpentibus, nigricantibus, sub-globosis, papillatis; sporulis, 20-25 \(\approx\) 10-12, dense fuligineis, medio 1-septato-constrictis.

Hab. in ramulis emortuis Albizziæ Julibrissin, Conegliano in Italia hor

39. Diplodia Farnesiana Sacc. M. V. n. 350 et F. Ven. Ser. V. n. 367. 1863 — Peritheciis majusculis, globosis, papillatis, cæspitulosis, erumpentibus; sporulis oblongis, 20-22 ≈ 8, medio constricto-1-septatis, fuligineis.

Hab. in ramulis corticatis emortuis Acaciæ Farnesianæ, Padova in Ital hor

40. Diplodia lata C. et Harkn. in Grevillea. — Gregaria, tecta; pe- 1864 ritheciis globoso-depressis, atris, in cortice nidulantibus, vix elevatis; sporulis ellipticis, uniseptatis, utrinque rotundatis, medio constrictis, atro-fuscis, 25 ≈ 16-18.

Hab. in ramis Acaciæ in California. — Sporulis latissimis distincta.

41. Diplodia Acaciæ Penz. et Sacc. F. Mortol. n. 31, tav. V. fig. 16. 1865 — Peritheciis sparsis vel laxe gregariis, hypodermicis, dein ex epidermidis fissura longitudinali prorumpentibus, majusculis, hemisphæricis, vix papillatis, duris, carbonaceis; sporulis oblonge ellipticis, utrinque rotundatis, uniseptatis, medio vix restrictis, atrofuscis, levibus, 23-26 = 10-12; basidiis simplicibus, continuis, hyalinis, brevibus, 7-8 = 3-4.

Hab. in ramulis emortuis Acaciæ sp., Mortola Italiæ borealis (O. Penzie).

42. Diplodia Siliquastri West. Bull. Soc. Belg. II. p. 244 (1864). Pas- 1866 ser. F. Parm. in Comm. Critt. II. p. 438 (1867). — Peritheciis sparsis, nigris, epidermide dein laciniatim fissa tectis, prominulis, ostiolo poroso; sporulis ovoideis v. ellipsoideo-oblongis, 1-septatis, fuligineis, 20 = 10, interdum constrictis.

Hab. in ramis dejectis v. emortuis Cercidis Siliquastri in Belgio et Italia boreali.

43. Diplodia rudis Desm. et Kickx in Rech. Cent. IV. p. 27 (1849). 1867 Diplodia heteromorpha West. 5 Not. p. 17. — Crusta stromatica nigra carbonacea, initio subcutanea, dein subsuperficiali tumida, epidermide tecta, dein cincta, subinde processibus inæqualibus, divergentibus peritheciophoris, conspersa; peritheciis sphæricis, membranaceis, nigris, papillatis, sæpe, cortice secedente, circumscissis; sporulis brunneis diu continuis ovoideis, dein 2-locularibus, leniter constrictis, 20-25 ≈ 9-10, brevi-stipitatis.

Hab. in ramis trunci emortui Cytisi Laburni in Gallia, Belgio, Suecia, Germania, Italia. — Contextus perithecii pallide fuscus; sporulæ immaturæ oblongæ, 30 ≈ 12-14, granulosæ, hyalinæ.

44. Diplodia nigricans Sacc. Mich. II. p. 269. — Peritheciis epider- 1868 mide tumidula tandem fissa velatis, globulosis, vix papillatis aterrimis; sporulis initio hyalinis, dein flavis, continuis, stipitellatis, dein 1-septatis, vix constrictis, 20 ≈ 8, olivaceo-fuscis.

Hab. in ramulis Cytisi nigricantis in silva Montello Italiæ borealis.

45. Diplodia Ulicis Sacc. et Sp. Mich. I. p. 353. — Peritheciis gre- 1869 gariis subcutaneis, dein erumpentibus, globosis, ½ mill. diam., bre- vissime papillatis; sporulis ovoideis vel ellipsoideis utrinque obtusiusculis, plerumque continuis, 20-25 ≈ 10-11, olivaceo-fuligineis, sæpius 1-2-guttulatis, basidiis filiformibus, 5 ≈ 1, hyalinis fultis.

Hab. in ramulis putrescentibus Ulicis europæi, Susegana in Italia boreali.

46. Diplodia Sarothamni C. et Hark. in Grevillea n. 64. — Gregaria 1870 vel sparsa, tecta, subtiliter elevata, ostiolo atro pertusa; peritheciis depressis atris; sporulis elongato-ellipticis, obtusis, uniseptatis, vix constrictis, fuscis, 30 ≈ 10.

Hab. in ramis Sarothamni in California.

47. Diplodia Cathartocarpi B. et Br. Fungi of Ceyl. n. 787. — Peri- 1871 theciis congestis e macula pallida oriundis, minutissimis, epidermidem elevantibus, ostiolo latiusculo; sporulis oblongis utrinque subattenuatis, 13-25 ≈ 5.

Hab. in utraque pag. foliorum Cassiæ Fistulæ, Damboul Ceylon.

48. Diplodia Amorphæ (Wallr.) Sacc. Sphæria Amorphæ Wallr. Comp. 1872 n. 3770. Rabenh. Herb. myc. II. n. 732! — Peritheciis minutis sparsis v. aggregato-subseriatis nigris globosis, præter verticem

umbonatum summam epidermidis pelliculam subtiliter elevantem hypophlæodeis eamque dein scissam infarcientibus, nucleo gelatinoso atro; sporulis ellipsoideo-oblongis, stipitatis constricto-1-septatis, $22-24 \approx 10$, fuligineis.

Hab. ad ramos novellos Amorphæ fruticosæ frigore tactos in Germania.

49. Diplodia Spegazziniana Roum. et Sacc. Mich. II. p. 622. — Pe- 1873 ritheciis gregariis v. hinc inde subaggregatis, subcutaneo-erumpentibus, ½ mill. diam, globoso-depressis, vix papillatis, atris; sporulis ellipsoideis, utrinque rotundatis, 21-23 ≈ 10-12, constricto-1-septatis, fuligineis; basidiis teretibus, 8-10 ≈ 3-3,5, hyalinis.

Hab. in ramis corticatis emortuis Poincianæ pulcherrimæ e Rio de la Plata in hortis Toulouse cultæ (Roumeguère).

50. Diplodia fissa Dur. et Mont. Fl. Alg. et Syll. n. 950. — Peri. 1874 theciis globosis innato-prominulis, sparsis aut glomeratis, extus intusque fuscis, vertice rimose dehiscentibus, epidermide longitrorsum rupta semitectis; sporulis primo subglobosis hyalinis, tandem oblongis fuscis.

Hab. in ramis Rosæ sempervirentis, Alger (Durieu). — An Sphæria fissa Pers.?

51. Diplodia Rosæ B. et C. North Am. Fungi n. 421, nec West. — 1875 Peritheciis epidermide tectis, sparsis vel congestis; sporulis oblongis, 12-13 = 6, utroque loculo 1-nucleato.

Hab. in ramis Rosarum, New England in America borea-li (Russell).

52. Diplodia spurca (Wallr.) Sacc. Sphæria spurca Wallr. Fl. crypt. 1876 n. 3769. — Peritheciis parvis nigro-fuscis, tectis, sparsis tenacellis, e basi depressa in verticem hemisphæricum sordide fuscum incusum nigro-papillatum, dein ostiolo æquali pertusum abeuntibus summamque epidermidis pelliculam parcissime scissam elevantibus, nucleo atro-viridi; sporulis oblongis, obtusis, uniseptatis, fuligineis.

 $\it Hab.\$ sub epidermide ramulorum Rosarum silvestrium in Germania.

53. Diplodia Rosarum Fr. Summa Veg. p. 417. D. Rosæ West. Not. 1877 VI. p. 21. Kickx Fl. Crypt. Fl. I. p. 395. — Peritheciis minutis, sparsis, nigro-brunneolis, sphærico-papillatis, epidermide atratula tectis; sporulis ellipsoideo-oblongis, constricto-l-septatis, fuligineis, 25 \(\approx 9. \)

Hab. in ramis Rosæ centifoliæ, R. caninæ etc. in Sue-

cia, Germania, Italia, Belgio. — Sec. Fuckel pycnidium Otthice Rosce.

54. Diplodia Kerriæ Berk. sec. Kickx Fl. cr. Fl. I. p. 399. Diplodia 1878 Corchori (Desm.) Kickx l. c. — Peritheciis sparsis, perexiguis, epidermide velatis, globulosis, subastomis, nigris; sporulis ellipsoideis oblongis, utrinque rotundatis, constricto-1-septatis, 20-22 = 7,7-8, fuligineis.

Hab. in ramulis Kerriæ japonicæ in Gallia, Belgio, Italia. — Nomen D. Kerriæ prætuli, nam Kerria japonica non nisi gravi errore ad Corchorum relata fuit.

55. Diplodia Rubi Fr. Summa Veg. Scand. p. 417. — Peritheciis spar- 1879 sis, epidermide velatis, prominentibus, subglobosis, nigris; sporulis ellipticis, atro-brunneis, uniseptatis, valde constrictis, 18-20 = 8-10.

Hab. in sarmentis emortuis Rubi fruticosi in Italia, Germania, Gallia, Suecia et America boreali. — Pycnidium Didymosphæriæ diplosporæ.

56. Diplodia rubicola Sacc. Mich. I. p. 256. — Peritheciis gregariis. 1880 globosis, exquisite papillatis, nigris, initio tectis, dein erumpentibus; sporulis obovatis, 25-28 ≈ 12, diu continuis, olivaceo-fuligineis, basidiis filiformibus, 10-12 ≈ 3, hyalinis suffultis.

Hab. in ramis putrescentibus Rubi fruticosi, Padova Ital. bor. — A Dipl. Rubi Fr. peritheciis majoribus, prominentibus; sporulis majoribus, diu (semper?) continuis etc. recedit.

57. Diplodia seriata De Not. Micr. Ital. Dec. IV. n. 6. — Peritheciis 1881 exiguis, sepius seriatim gregariis, globoso-depressis, papillatis, pertusis, epidermide velatis, dein subliberis; sporulis stipitellatis, ellipsoideo-oblongis, utrinque rotundatis, hyalinis, dein badio-fuligineis, plasmate bipartito obsolete 1-septatis, 17-18 = 7-9.

Hab. ad sarmenta sicca Rubi fruticosi, Torino Ital. bor.

58. Diplodia Preussii Sacc. Sporocadus Rubi Preuss. Hoyersw. n. 1882 151. — Gregaria, cæspitosa vel solitaria erumpens; peritheciis nigris, oblongis vel mammillatis; ostiolis papillatis, prominulis; sporulis oblongis medio contractis didymis, atro-fuscis.

Hab. in ramulis dejectis Rubi Idæi, Hoyerswerda.

59. Diplodia Pruni Fuck. Symb. p. 169. — Peritheciis tectis, 5-8-1883 aggregatis et epidermidem demum fissam pustulatim elevantibus, globosis, atris, papillatis; sporums oblongis, fuscis, dein constricto-1-septatis, 18-22 ≈ 8-10.

Hab. in ramulis corticatis Pruni domesticæ, spinosæ et

Armeniacæ in Italia, Germania, Gallia. - Pycnidium Otthice Pruni.

60. Diplodia Roumegueri Sacc. Mich. II. p. 106. D. laurina Roum. 1884 F. Gall. n. 217, nec Sacc. - Peritheciis subcutaneo-erumpentibus, globoso-papillatis, gregariis, atris; sporulis constricto-didymis, 25 ≥ 13, fuligineis, stipite dimidio breviore suffultis.

Hab. in ramis emortuis Pruni lusitanice et P. Laurocerasi, Prades in Gallia merid. (Roumeguere) et in Italia boreali

(SACCARDO).

61. Diplodia Padi Brun. in Rev. Myc. IV. p. 226. -- Peritheciis spar- 1885 sis, minutis, nigris, innato-erumpentibus; sporulis oblongis, utrinque rotundatis, 1-septatis constrictisque, fuligineis, 22 = 8-10, loculo super. crassiore; basidiis hyalinis.

Hab. in ramis emortuis Pruni Padi, Saintes in Gallia et in

Arduennis.

62. Diplodia patellaris (Wallr.) Mont. Cent. VIII. p. 82, Sph. patel- 1886 laris Wallr. Fl. crypt. n. 3781. - Peritheciis sparsis, orbiculatis, atris, subcutaneis, senio patellaribus, basi convexiuscula latiore epidermidi adnatis illamque dein vertice plano, primum membranula delicatissima concolore cum cubilibus confluente, fidentibus; sporulis oblongis, 1-septatis, leniter constrictis, $25 \approx 10$, atro-nitidis prorumpentibus et in massam palpabilem coactis.

Hab. ad ramulos languidos Pruni domestica in Thu-

ringia.

63. Diplodia Cratægi West. in Kickx Fl. Fl. I. p. 393 (1867). Fuck. 1887 Symb. p. 393 (1869). — Peritheciis gregariis v. subseriatis, primo tectis, demum erumpentibus, minutis, globosis, atris; ostiolis conicis; sporulis oblongis, 1-septatis, atro-fuscis, $24 \approx 8$, loculis subinæqualibus.

Hab, in ramis siccis Cratægi Oxyacanthæ in Belgio, Italia, Germania. — Species Westendorpii non differt ab homonyma seriore Fuckelii.

64. Diplodia Cydoniæ Sacc. Mich. II. p. 269, Sacc. et Schulz. Micr. 1888 Slav. n. 32. — Peritheciis erumpentibus, gregariis, quandoque 3-4-aggregatis e globoso depressis, ostiolo papillulato brevissimo, atris; sporulis ovoideis, 20-24 = 11-12, 1-septatis, non vel vix constrictis, fuligineo-olivaceis.

Hab. in ramis corticatis Cydoniæ vulgaris in Italia bor., Gallia et Slavonia. — Var. B. libera Schulz et Sacc. l. c. peritheciis subsuperficialibus, globoso-conicis, magis discretis; sporulis 17-25 \approx 10, ceterum similibus. In ramis decorticatis Cydoniæ pr. Vinkovce in Slavonia.

65. Diplodia Persicæ Sacc. Mich. II. p. 267. — Peritheciis gregariis 1889 subcutaneo-erumpentibus, globulosis, papillatis, atris, contextu parenchymatico fuligineo; sporulis oblongis, 18-20 = 8, didymis, leniter constrictis, denique fuligineis.

Hab. in ramis Persicæ vulgaris, Conegliano in Ital. bor.
66. Diplodia Amygdali Cooke et Hark. in Grevillea n. 64. — Gre-1890 garia, tecta, corticem vix elevans; peritheciis globoso-depressis, atris, papillatis; sporulis ellipticis, obtusis, uniseptatis, nec constrictis, fuscis, 20-22 ≥ 8.

Hab. in ramis Amygdali in California; an potius in Armeniaca, nam Apricot indicatur. — Distincta a Diplodia Cerasorum Fuck.

67. Diplodia maura C. et Ell. in Grevillea. — Gregaria; peritheciis 1891 globosis, atris, tectis, demum epidermide stellato-fissa; sporulis ellipticis, brunneis, uniseptatis, 25 ≈ 10.

Hab. in ramis Piri communis, New Jersey in Amer. bor.

68. Diplodia radiciperda Thum. Symb. myc. Austr. I. p. 10. — Pe- 1892 ritheciis aggregatis, elevatis, gregariis, liberis, subsphæricis, epidermidem perforantibus, oculo nudo *Cucurbitariam* imitantibus, atris, magnis; sporulis ellipsoideis vel ovatis, medio non constrictis, uniseptatis, apice interdum minime acutatis, episporio levi, spadiceis, 17 = 10.

Hab. in radicibus Piri communis adhuc tenellis emortuis, Klosterneuburg in Austria.

69. Diplodia piriformis (Pr.) Sacc. Sporocadus piriformis Preuss F. 1893 Hoyersw. n. 52. — Cæspitosa, sublibera, epidermidem tollens; peritheciis sphæricis, ostiolis papillatis atro-fuscis, corneis; basidiis filiformibus; sporulis piriformibus, magnis, uniseptatis, cum guttulis oleosis, magnis, repletis, cacao-fuscis.

Hab. ad ramos Mali, Hoyerswerda.

70. Diplodia Pseudo-Diplodia Fuck. Symb. myc. p. 393. — Perithe- 1894 ciis gregariis, tectis, globosis, atris, ostiolis conicis, obtusis, per epidermidem demum erumpentibus et olivaceo-inquinantibus; sporulis oblongo-ovatis, non septatis, fuscis (vel tandem 1-septatis 25 ≈ 12).

Hab. in ramulis siccis v. adhuc vivis Piri Mali et Piri communis in Rhenogovia, Italia et Gallia.

71. Diplodia Cerasorum Fuck. Symb. myc. p. 154 Mich. II. p. 270. - 1895

Peritheciis majusculis, sparsis v. subaggregatis, atris, intus cavis initioque albis, plerumque tectis, rarius erumpentibus; sporulis nunc continuis, $23 \approx 10$, nunc bilocularibus vix constrictis, $24-25 \approx 12$, fuligineis.

Hab. in ramis corticatis Cerasi in Germania et Italia bor.
Pycnidium Massariellæ vibratilis.

72. Diplodia spiræina Sacc. Reliq. Libert. IV. n. 139. — Peritheciis 1896 subcutaneo erumpentibus, globulosis gregariis, vix papillatis, atris; sporulis ovato-oblongis, 1-septatis, vix constrictis, 20-22 = 10, fuligineis; basidiis bacillaribus dimidio brevioribus, hyalinis.

Hab. in ramulis corticatis Spirææ salicifoliæ in Arduennis (LIBERT). — Pycnidium Otthiæ Spirææ Fuck.

73. Diplodia Spirææ Thum. Contr. F. Litor. n. 143, tab. I. fig. 9. — 1897 Peritheciis majusculis, sæpe confluentibus, erumpentibus, gregariis, subdisciformibus, applanatis, atris; sporulis ovoideo-clavatis, impellucidis, obscure castaneis, $14-20 \approx 8$.

Hab. ad ramulos aridos Spirææ salicifoliæ, hieme prope urbem Gorizia.

74. Diplodia Sorbi Sacc. Mich. I. p. 518. — Peritheciis globoso-de- 1898 pressis, subsparsis, tectis, vix erumpentibus, ½ mill. diam.; sporulis ovato-oblongis, 24 \approx 13, diu continuis hyalinisque.

Hab. in ramis Sorbi domesticæ pr. Saintes in Gallia.

75. Diplodia Amelanchieris Sacc. Mich. I. p. 518. — Peritheciis sub- 1899 sparsis, globulosis, tectis, nigris, ½ mill. diam.; sporulis oblongo-didymis, 25 = 9-10, fuligineis.

Hab. in ramis Amelanchieris vulgaris pr. Saintes in Gallia (BRUNAUD).

76. Diplodia Punicæ Paul Brunaud in Roum. Revue Mycol. IV. p. 1900 226. — Peritheciis gregariis, globuloso-papillatis, atris; sporulis medio constrictis, brunneis, 18-22 ≈ 8-9.

Hab. in ramulis emortuis Punicæ Granati, Saintes in Gallia.

77. Diplodia Chimonanthi Sacc. Mich. II. p. 265. — Peritheciis gre- 1901 gariis, globulosis, papillatis, atris, subcutaneis, dein erumpentibus; contextu parenchymatico fuligineo; sporulis constricto-didymis, 18 = 8, fuligineis breve stipitatis.

Hab. in ramis Chimonanthi præcocis, Selva in Ita-

78. Diplodia Calycanthi (Schw.?) Speg. Mich. I. p. 485, Sphæria Ca- 1902 lycanthi Schw.? — Peritheciis subepidermicis, erumpentibus, atris, lenticularibus, rugulosis, 200-300 μ. diam.; sporulis primo luteolis,

dein olivaceo-fuscis, 1-septato-constrictis, ovoideis vel ellipticis, $19-22 \approx 9-10$.

Hab. in ramulis emortuis Calycanthi floridi, Conegliano in Italia boreali.

79. Diplodia Lagerstræmiæ Speg. Mich. I. p. 485. — Peritheciis atris, 1903 papillulatis, sublenticularibus, erumpentibus, $200-250~\mu$. d., ostiolo late hiante pertusis; sporulis opace olivaceo-fuligineis; 1-septatis ad septum non vel vix constrictis, utrinque obtusiusculis, $18-20 \approx 8-10$.

Hab. in ramulis emortuis dejectis Lagerstræmiæ indicæ, Conegliano in Ital. bor.

80. Diplodia Tamaricis Rabenh. Hedw. 1873, p. 141. — Peritheciis 1904; sporalis oblongis, utroque polo late rotundatis, fuscis, 1-septatis, 14-16 ≈ 8-10.

Hab. in ramulis Tamaricis in Germania.

81. Diplodia tamaricina Sacc. Mich. I. p. 518 (sub nom. D. Tamaricis, 1905 sed non Rabenh.). — Peritheciis gregariis, subcutaneo-erumpentibus, globoso-papillatis ¹/₃ mill. diam. nigris; sporulis ovato-oblongis, constricto-didymis, 20 ≈ 12, stipitatis, fuligineis.

Hab. in ramis Tamaricis anglicæ pr. Saintes in Gallia (Brunaud).

82. Diplodia Australiæ Speg. F. Arg. Pug. I. p. 190. — Peritheciis 1903 densiuscule gregariis, lenticularibus, minutis, \(^1/6^{-1}/5\) mill. diam., cortici immersis, atris, ostiolo parvulo impresso donatis; contextu parenchymatico, membranaceo-subcarbonaceo; sporulis ellipticis, ex ostiolo protrudentibus atque areolam minutam punctiformem, atram efficientibus, medio 1-septatis, non vel vix constrictis, 20-22 \(\times 10-12\), amœne fuligineis.

Hab. in cortice secedente truncorum Eucalypti Globuli ubique vulgatissima in Argentina.

83. Diplodia Eucalypti Cooke et Harkn. in Grevillea 1881, p. 127. — 1907 Sparsa, tecta, demum erumpens; peritheciis carbonaceis, globosis, atris; sporulis ellipticis, brunneis, uniseptatis, medio leniter constrictis, 22-25 = 9-12, subinde 30 = 11.

Hab. in cortice Eucalypti in California. — Diversa satis a Diplodia Molleriana Thüm.

84. Diplodia tenuis Cooke et Harkn. in Grev. 1881, p. 127. — Pe- 1908 ritheciis sparsis, globosis, obtusis, membranaceis, atris, dein prominulis; sporulis ellipticis, uniseptatis, hyalinis, 12 ≈ 4.

Hab. in corticibus emortuis Eucalypti in California.

85. Diplodia Catappæ Cooke in Grevillea. -- Peritheciis globosis, pri- 1909

mo tectis, dein erumpentibus; sporulis variabilibus, demum 1-septatis, atro-brunneis, utrinque subnucleatis.

Hab. in nucibus Terminaliæ Catappæ, Pondicherry, Bengala in Asia.

86. Diplodia Opuntiæ Sacc. Mich. II. p. 267. — Peritheciis sparsis, 1910 epidermide tumida et nigricante velatis erumpentibusve, globulosis, obtuse papillatis; sporulis oblongis 20-22 = 10-11, leniter constrictis, atrofuligineis (initio hyalinis, guttulatis, stipitellatis).

Hab. in cladodiis Opuntiæ nanæ in collibus Euganeis, Mon-

tegrotto etc. in Ital. bor.

87. Diplodia Ribis Sacc. Mich. I. p. 518. — Peritheciis gregariis v. 1911 subaggregatis, subcutaneis, globoso-papillatis, 1/3 mill. diam. atris; sporulis stipitatis, oblongo-ovatis, diu continuis, dein constricto-1septatis, fuligineis, $25 \approx 12$.

Hab. in ramis Ribis rubri in Italia boreali et Gallia. —

Forte status secund. Cucurbitaria Ribis Niessl.

88. Diplodia Grossulariæ Sacc. et Schulz. Micr. Slav. n. 31. Schulz. 1912 Ill. fung. Slav. n. 794. — Peritheciis gregariis, peridermio pustulato tectis, globulosis, 0,3 mill. diam., atris intus et extus, vertice obtusiusculis; sporulis ovato-oblongis, didymis, constrictis, 18-26 ≈8-9, fuligineis.

Hab. in ramis Ribis Grossulariæ pr. Vinkovce in Slavonia. 1913 89. Diplodia Hederæ Fuck. Symb. myc. p. 394, t. II. f. 35. - Peritheciis gregariis, erumpentibus, media magnitudine, globosis, vertice conicis, perforatis, atris; sporulis ovato-oblongis, didymis, loculis uniguttulatis, atro-fuscis, 24 = 10.

Hab. in ramis foliisque Hederæ Helicis in Germania et Italia boreali.

90. Diplodia mamillana Fr. Summa Veg. p. 417. Sphæria mamilla- 1914 na Fr. S. M. II. p. 487 p. p. Diplodia Corni West. - Sparsa; peritheciis hemisphærico-prominulis, epidermide nigrefacta adnata tectis; ostiolo papillæformi limbo cincto; sporulis ovoideis, constricto-l-septatis, fuligineis, $20-22 \approx 8$.

Hab. in ramulis corticatis Corni sanguinez in Suecia,

Germania, Belgio, Gallia, Italia.

91. Diplodia aucubicola Sacc. D. Aucubæ Sacc. F. Ven. Ser. IV. sub 1915 n. 8, nec West. — Peritheciis gregariis subcutaneis, igloboso-depressis, papillatis; sporulis ovato-oblongis, 25-28 = 12-14, diu hyalinis, dein fuligineis.

Hab. in ramis ramulisque Aucubæ japonicæ, Padova Ital. bor.

92. Diplodia paupercula B. et Br. North Am. F. n. 419bis. — Peri- 1916 theciis minutis punctiformibus; sporulis oblongis vel obovoideis, $10 \approx 5$.

Hab. in ramis Loniceræ in Carolina inf. Amer. bor. — Var. Platani Cfr. B. et Br. Ann. N. H. n. 406: peritheciis initio tectis, dein liberis, globosis, ostiolo prominulo; sporulis minutis, I-septatis, obovatis hyalinis, dein oblongis, brunneis. In ramis emortuis Platani, Batheaston in Britannia.

93. Diplodia deflectens Karst. Hedw. 1884, p. 18. — Peritheciis spar- 1917 sis vel laxe gregariis, peridermio tenuissimo, translucido, disco tantum fisso, arcte adhærente tectis, sphæroideo-vel oblongato-applanatis, demum poro sat lato apertis, basi filamentis paucis, brevibus, radiantibus, fuscescentibus obsessis, nigris, 2 μ. lat.; sporulis oblongatis vel subellipsoideis, utrinque vix vel leviter attenuatis, uniseptatis, ad septum vix vel leviter constrictis, dilutissime fuligineis, eguttulatis, 16-21 ≈ 7-8.

Hab. in ramulis emortuis Loniceræ in Fennia.

94. Diplodia ascochytula Sacc. Mich. II. p. 349. — Peritheciis gre- 1918 gariis et hinc inde in cæspitulos aggregatis, subsuperficialibus glo-boso-lenticularibus, 80 μ. diam. pertusis; sporulis breve fusoideis, 8-9 = 21/2-3, utrinque obtusiusculis, olivaceis,

Hab. in sarmentis decorticatis et sæpius infuscatis Loniceræ Periclymeni pr. Rouen in Gallia (Malbranche). — Habitus Diplodice, sed characteres potius Ascochytæ.

95. **Diplodia Loniceræ** Fuck. Symb. Myc. p. 141. — Peritheciis ma· 1919 jusculis in acervulos elongatos erumpentes dispositis, globoso-papillatis, atris subtilissime punctulatis; sporulis oblongo-didymis, atro-fuscis, medio vix constrictis, 28 ≈ 9.

Hab. in ramis putrescentibus Loniceræ Xylostei et Caprifolii in Germania, Italia et America boreali.

96. Diplodia Symphoricarpi Sacc. M. V. n. 336. Fungi Ven. Ser. V. 1920 n. 362 (1876), Cooke et Harkn. in Grevillea (1881). — Peritheciis nunc sparsis, nunc in acervulos parvos subaggregatis, epidermide tumidula primitus velatis, dein lacerata cinctis, globulosis, facile collabascentibus, papillulatis, atris; sporulis ovoideis, 20-24 = 11-12, diu continuis, tandem didymis e lutescenti fuligineis, demum valde constrictis.

Hab. in ramulis Symphoricarpi racemosæ in Italia boreali et in California.

97. Diplodia sambucina Sacc. Mich. II. p. 268. — Peritheciis grega- 1921

riis subepidermicis, tandem erumpentibus et superficialibus, minutis, subglobosis, papillatis, aterrimis; sporulis ovato-oblongis, 18 = 11, leniter constrictis, fuligineis.

Hab. in ramulis hornotinis Sambuci nigræ, Selva Ital. bor. et in Gallia.

98. Diplodia microspora B. et C. North Am. Fungi n. 422 bis. — Pe. 1922 ritheciis sparsis; sporulis oblongis minimis, 6-7 \approx 3, pallide brunneis.

Hab. in ramis Viburni opulifolii in Pensylvania Am. bor.

99. Diplodia Lantanæ Symb. Myc. 395. — Peritheciis majusculis, 8- 1923 12 in acervulos confluentibus, globosis irregularibusve, atris, supra levibus, infra subtiliter pilosis, papillatis, per corticis fissuras pustulatim erumpentibus; sporulis didymis, oblongis, fuscis 24 × 8.

Hab. in ramis siccis Viburni Lantanæ in Italia boreali

et Rhenogovia.

- 100. Diplodia Unedonis Paul Brunaud. in Roum. Revue Mycol. IV. 1924 p. 226. Peritheciis cortice immersis, tectis, dein suberumpentibus, sparsis vel aggregatis, minutis, nigris, poro pertusis; sporulis oblongis, I-septatis, non vel leniter constrictis, 22-24 = 9-10, fuligineis.
- Hab. in ramis emortuis Arbuti Unedonis, Saintes in Gallia.

 101. Diplodia inquinans West. Not. II. p. 14. Kickx Fl. cr. Fl. I. p. 1925

 398. Peritheciis globulosis, perexiguis, disseminatis, tectis, dein semiemersis, poro pertusis; sporulis ellipsoideo-oblongis, bilocularibus, constrictis, dein prorumpentibus et atro-fædantibus, 25

 =12-14.

Hab. in trunco Fraxini Orni in Belgio, Italia, Germania, Gallia.

102. Diplodia Jasmini West. Not. V. p. 17. — Peritheciis (2-5) con- 1926 gregatis, globoso-papillatis, epidermide tectis, dein cinctis; sporulis oblongis, $30 \approx 15$, diu hyalinis et continuis, tandem bilocularibus, leniter constrictis, fuligineis.

Hab. in ramulis Jasmini officinalis et fruticantis in Belgio, Italia et Gallia.

103. Diplodia elæophila Sacc. et Roum. in Revue Mycol. — Peri- 1927 theciis subsparsis, initio tectis, globoso-conicis, $\frac{1}{4}$ mill. diam.; sporulis oblongo-ellipsoideis, stipitellatis, $30 \approx 14$, diu continuis hyalinis.

Hab. in ramis Oleæ europææ in Algeria.

104. Diplodia Licalis West. in Bull. Ac. Brux. 1852, III. pag. 119. 1928

Diplodia Syringa Auersw. in Fuck. Symb. p. 395 (1869). — Pe-

ritheciis sparsis v. gregariis, globuloso-papillatis, epidermide sæpe lineatim fissa tectis; sporulis ellipsoideis, dein 1-septatis leniterque constrictis, fuligineis, $22-28 \approx 8-10$.

Hab. in ramis corticatis emortuis Syringæ vulgaris in Belgio, Gallia, Italia, Germania, Austria, Britannia.

105. Diplodia Ligustri West. Bull. Belg. II. p. 244. Mich. II. p. 266. 1929

— Peritheciis gregariis, minutis, globuloso-papillatis, subcutaneoerumpentibus, initio albo-nucleatis; sporulis oblongo-ellipsoideis,
26-28 ≈ 8-10, leniter constrictis, 1-septatis, fuligineis, stipitellatis.

Hab. in ramis emortuis Ligustri vulgaris in Belgio et Italia boreali. — An eadem ac D. Mamma Fuck.?

106. Diplodia Mamma Fuck. Symb. myc. p. 394. Oudem. Mat. Myc. 1930 II. p. 18. — Peritheciis subcutaneo-erumpentibus, nigris; sporulis ellipsoideis v. ovoideis, stipitellatis, 23-25 ≈ 9-13, diu hyalinis, continuis, tandem.....

Hab. in ramis emortuis Ligustri vulgaris in Germania, Hollandia. Sphæria Mamma Wallr. Comp. n. 3786 Melomastiam spectare mihi videtur.

107. Diplodia Chionanthi C. et Ell. in Grevillea. — Gregaria; peri- 1031 theciis teetis, papillatis, atris, ad basin mycelio profuso brunneo radiante cinctis; sporulis ellipticis, brunneis, uniseptatis, vix constrictis, 25 ≈ 10.

Hab. in ramis Chionanthi, New Jersey in Amer. bor.

108. Diplodia Nerii Speg. Mich. I. p. 486. — Peritheciis lenticula- 1932 ribus, subepidermicis, dein erumpentibus, atris, $200-250~\mu$. diam; sporulis ovoideis vel ellipticis, 1-septato-constrictis, olivaceo-fuligineis, $18-22 \approx 8-10$.

Hab, in ramulis et petiolis foliorum Nerii Oleandri, Conegliano in Italia boreali.

109. **Diplodia Catalpæ** Speg. Mich. I. p. 486. — Peritheciis subepi- 1933 dermicis, tectis, dein erumpentibus, globosis, atris papillulatis; sporulis oblongo-ellipsoideis, medio 1-septatis, non constrictis, fuligineo-olivaceis, 20-22 ≈ 8-11.

Hab. in ramulis emortuis Bignoniæ Catalpæ, Conegliano in Italia boreali.

110. Diplodia Tecomæ Pass. Hedw. 1877, p. 119. — Peritheciis sub- 1934 globosis erumpentibus, atris, rugulosis, papillatis, solitariis v. cæspitosis; sporulis plus minus oblongis, non constrictis, bilocularibus, castaneo-fuscis.

Hab. in ramulis aridis Tecomæ radicantis pr. Parma in Ita-

lia boreali. — β . affinis: peritheciis globoso-papillatis, majusculis; sporulis constricto-didymis, $20-23 \approx 10$, atro-fuligineis, stipitatis. In sarmentis Tecomæ, Toulouse in Gallia.

111. Diplodia Incarvilleæ Thüm. Contr. Myc. Lusit. n. 556. — Peri. 1935 theciis aggregatis, globulosis, subrimosis, atris in cæspitibus gregariis, magnis, erumpentibus, liberis, ad basin epidermide cinctis, ostiolo obtuso-conico; sporulis oblongis, e cellulis duabus fere globosis compositis, utrinque rotundatis, medio valde constrictis, pulchre spadiceis, 20 = 12,5.

Hab. in ramulis emortuis Incarvilleæ sinensis in horto botanico Coimbra Lusitaniæ (Moller).

112. Diplodia imperialis Sacc. Mich. I. p. 96. F. it. fig. 98. — Peri- 1936 theciis globulosis, subsuperficialibus, 100-110 μ. diam., breve papillatis, fuligineo-atris, membranaceis; sporulis oblongo-fusoideis, minutis, 8-10 ≈ 3, 1-septatis, non v. vix constrictis pallide olivaceis.

Hab. in ramis decorticatis putrescentibus Paulowniæ imperialis, Conegliano in Ital. bor. (Spegazzini).

113. Diplodia laurina Sacc. M. V. n. 508. F. Ven. Ser. V. n. 370 1937 Dipl. melæna var. Lauri Roum. F. Gall. n. 121. — Peritheciis sparsis, subcutaneis, atris, minutis; sporulis oblongis, 29 \(\pi \) 9, didymis, leviter constrictis, intense fuligineis.

Hab. in ramis putrescentibus Lauri nobilis, Selva, Colfosco (Treviso) in Ital. bor., et Perpignan in Gallia.

114. Diplodia Edgworthiæ Sacc. Myc. Ven. 1529, et Mich. II. 537. — 1938 Peritheciis gregariis, subcutaneo-erumpentibus; sporulis oblongis; ad septum vix constrictis, 30 = 15, fuligineis; initio stipitellatis.

Hab. in ramis putrescentibus Edgworthiæ chrysanthæ, Padova in Ital. bor. (Bizzozero).

115. Diplodia Pittospori Cooke et Hark. in Grevillea n. 64. — Spar- 1939 sa vel subgregaria, tecta; peritheciis subglobosis, atris, ostiolo punctiformi erumpente; sporulis ellipticis, diu hyalinis, continuis, demum uniseptatis, fuscis, nec constrictis, 20 ≈ 12.

Hab. in ramis Pittospori in California.

116. Diplodia cytosporoides Roum. Fungi Gall. n. 23. — Peritheciis 1940 numerosis, nigris, subglobosis, innato-prominulis diuque epidermide tectis, poro pertusis; sporulis oblongis, obtusis, fuligineis, demum bilocularibus, 2-guttatis; basidiis..... non visis.

Hab. in ramis emortuis Garryæ ellipticæ, Toulouse in Gallia.

117. Diplodia Elæagni Pass. Micr. Ital. n. 15. — Peritheciis epiphyl- 1941

lis, sparsis, atris, subglobosis, scabris, epidermide rupta cinctis; sporulis oblongo-ellipticis initio crassiuscule stipitatis, integris, hyalinis vel violaceis, dein castaneis, medio septatis, non constrictis, $25 \approx 8-10$.

Hab. ad folia decidua Elæagni reflexi in horto botanico parmensi in Italia boreali.

118. Diplodia buxella Sacc. Mich. II. p. 266. — Peritheciis gregariis 1942 subcutaneis, sed tandem cortice delapso, superficialibus, minutis, globuloso-conoideis, atro-nitidulis (Melanommatis facie); sporulis oblongis, 18 = 7-8, 1-septatis, lenissime constrictis, pallide fuligineis.

Hab. in ramis Buxi sempervirentis, Selva in Italia bor.

— A Dipl. Buxi Fr. et Dipl. buxicola Sacc. peritheciis sporulisque minoribus etc. diversa.

119. **Diplodia buxicola** Sacc. Mich. I. p. 518. — Peritheciis gregariis 1948 aggregatisve, initio subcutaneis, dein, cortice secedente, subsuperficialibus, globulosis, papillatis, ½ mill. diam., aterrimis; sporulis ovato∓oblongis, constricto-1-septatis, 25 ≈ 12, atrofuligineis.

Hab. in ramis semidecorticatis Buxisempervirentis, Saintes et Toulouse in Gallia.

120. Diplodia Celtidis Roum. in Fung. Gall. n. 19. Mich. II. p. 108. 1944
 — Peritheciis gregariis subcutaneis, atris, globulosis; sporulis didymis, crassis, 22 ≈ 12, diu hyalinis, dein fuligineis, stipitellatis.

Hab. in ramis corticatis Celtidis australis, Bagnouls sur mer in Gallia merid.

121. Diplodia argentina Sp. F. Arg. Pug. II. n. 129. — Peritheciis 1945 hemisphæricis vel globoso-depressis, immersis vel in ramulis junioribus decorticatis superficialibus, atris, ostiolo papillato pertusis, $^{1}/_{2}$ - $^{1}/_{3}$ mill. diam., carbonaceis; sporulis cylindraceo-ellipticis, utrinque obtuse rotundatis, $20-25 \approx 10-12$, medio 1-septatis, non constrictis, fuligineis.

Hab. in cortice secedente vel ramulis Celtidis Talæ prope San José de Flores et Palermo in Argentina.

122. Diplodia melæna Lév. Ann. Sc. nat. 1846, p. 292. — Perithe- 1946 ciis innatis, epidermide tectis, gregariis, globosis, ostiolo obsoleto; sporulis oblongis, 20-22 = 8-10, 1-septatis, fuligineis, mox effluentibus matricemque atro-fædantibus.

Hab. in ramis corticatis Ulmi campestris in Gallia, Italia, Germania. — An exemplaria in Lauro et Ailantho indicata huc reapse spectent, non liquet. — Pycnidium Cucurbilarice naucosce, teste Fuck.

123. Diplodia tephrostoma Lév. Ann. Sc. nat. 1846, p. 291. — Pe- 1947 ritheciis sparsis vel confertis, globosis, nigris, epidermide laciniatim fissa cinctis, ostiolis pertusis discum cinereum perforantibus; sporulis 1-septatis, fuligineis.

Hab. in ramis corticatis Ulmi campestris in Italia boreali et Gallia.

124. Diplodia sycina Mont. in Castag. Supplem., p. 64 et in Syll. 1948 Crypt. n. 947. — Peritheciis globosis subcompressis atris opacis, seriatim e rimis ligni decorticati erumpentibus; sporulis magnis oblongis fuscis, brevissime pedicellatis.

Hab. in ramulis decorticatis Fici Caricæ in Gallia, Italia, Germania. — Var. syconophila Sacc.: peritheciis dense gregariis, subcutaneis, globoso-papillatis atris; sporulis constricto-1-septatis, stipitatis, 20-25 = 8-11, fuligineis. In ramulis corticatis Fici, qui atro-fædantur, in Italia et Gallia. — Var. carpophila Thüm.: peritheciis solitariis; sporulis castaneo-fuscis, brevissime deciduo-stipitatis. In Italia boreali pr. Plezzo in fructibus siccis adhuc pendulis Fici Caricæ.

125. Diplodia macrostoma Lév. Ann. Sc. nat. 1846, p. 201. — Pe- 1949 ritheciis gregariis confertis, erumpentibus, nigris, ostiolis conicis demum deciduis et tunc peritheciis late hiantibus; sporulis generis.

Hab. in ramis corticatis Fici Caricæ et Gleditschiæ Triacanthi pr. Paris in Gallia et pr. Gorizia in Italia bor.

126. Diplodia Macluræ Speg. in Mich. I. p. 484. — Peritheciis nunc 1950 sparsis, nunc in acervulos aggregatis, primo epidermide tectis, dein erumpentibus atque ab ea cinctis; sporulis ovoideis, 23-25 = 8-11, in sterigmatibus parvulis, 10 = 3, acrogenis, primo continuis, guttulatis, luteolis, dein medio 1-septatis non vel vix constrictis, obscure fuligineis.

Hab. in ramulis emortuis Macluræ aurantiacæ, Susegana in Italia boreali.

127. Diplodia radicina C. et Ell. in Gravillea. — Erumpens, grega- $_{1051}$ ria; peritheciis atris, elevatis, subglobosis; sporulis ellipticis, nec constrictis, brunneis, $30 \approx 10-12$.

Hab. in radicibus Macluræ, New Jersey Amer. bor.

128. Diplodia Papayæ Thum. in Rev. Myc. 1879, p. 9. — Perithe- 1952 ciis numerosis, dense gregariis, hemisphæricis vel pulveri pyrio similibus, atris, nitidis; sporulis oblongo-ellipticis, utrinque angustatis et rotundato-acutatis, medio septatis, sed non constrictis, obscure fuscis, impellucidis, 25 = 10.

Hab. in ramis emortuis Caricæ Papayæ, Malabar (Doct. Keck).

129. Diplodia Molleriana Thum. Contr. Myc. Lus. n. 558. — Perithe- 1953 ciis sparsis aut solitariis aut longitudinaliter seriatim dispositis, prominulo-erumpentibus, primo sub epidermide nidulantibus, demum liberis, aterrimis, mediis; sporulis numerosis, ellipsoideis, utrinque angustato-rotundatis, medio non constrictis, obscure fuscis, impellucidis, enucleatis, 24 × 10.

Hab. in ramulis aridis Ficus radicantis in horto botanico Coimbra in Lusitania.

130. Diplodia subtilis Bon. Abhandl. II. p. 145. — Gregaria, puncti- 1954 formis; peritheciis globosis seu ovoideis, basi applanatis, nigris, clivosis, astomis, primum cortice tectis, dein denudatis; sporulis ovoideis oblongisve, 1-septatis, læte brunneis; basidiis simplicibus, angustis.

Hab. in ramis Mori et Laburni in Guestphalia.

131. Diplodia incrustans Sacc. Fungi Ven. Ser. IV. n. 29, Myc. Ven. 1955 Spec. p. 119, t. XII. fig. 16. — Peritheciis conoideis, subcutaneo-erumpentibus, atris, basi hyphis ramulosis, parce septatis, obsitis; sporulis obovatis, constricto-1-septatis, 15 ≈ 10, articulo infero subacuminato, fuligineis.

Hab. in ramis corticatis Broussonetiæ, Rhois typhinæ, Padova, Treviso in Italia boreali. — Pycnidium Thyridariæ incrustantis.

132. Diplodia Mori West. Bull. Soc. bot. Belg. II. p. 244. Sphwria 1956 Mori Chaill. in Fr. S. Myc. II. p. 494 (nomen). — Peritheciis gregariis, subcutaneo-prominulis, globoso-papillatis, nigris; sporulis ellipsoideo-oblongis, 1-septatis, leniter constrictis, $25 \approx 9-10$, fuligineis.

Hab. in ramis corticatis Mori albæ et nigræ in Italia, Gallia, Belgio, Austria, Germania, Algeria, Amer. bor. — Forma peritheciis subaggregatis; sporulis, 25 ≈ 10-11, similibus, occurrit in ramis crassioribus Mori in Gallia. — Diplodia Mori Berk. Dec. of fungi n. 137: sporulis semper pallidis simplicibus, obovato-oblongis; peritheciis globosis dispersis siccitate collapsis solitariis v. subaggregatis, in ramis Mori multicaulis Cincinnati, Ohio, videtur Phomæ v. Dothiorellæ species.

133. Diplodia moricola C. et Ell. in Grevillea. — Semiinmersa, pe- 1957 ritheciis atris, globosis, papillatis; sporulis ellipticis, brunneis, endochromate bipartito, 18-22 ≈ 10.

Hab. in ramis decorticatis Mori, New Jersey Amer. bor.

134. Diplodia atramentaria C. et Ell. in Grevillea. — Peritheciis pau- 1958 cis, congestis, erumpentibus, atro-brunneis, obtusis, apice magno perforatis; sporulis anguste ellipticis, brunneis, profusis, profluentibus et inquinantibus, 15 ≈ 6.

Hab. in ramis Mori, New Jersey in America boreali. — De

septo non loquitur, an ergo Sphæropsidis species?

135. Diplodia fulvella Cooke in Grevillea. — Sparsa; peritheciis im- 1959 mersis, tectis, ostiolis abbreviatis, erumpentibus; sporulis ellipticis, brunneis, uniseptatis, nec constrictis, 30 = 14.

Hab. in cortice Platani, Aiken in Carolina austr. Am. bor. 136. Diplodia myxosporioides Sacc. Mich. II. p. 349. — Peritheciis 1960 gregariis, diu peridermio velatis, denique suberumpentibus, globulosis depressis, \frac{1}{3} mill. diam., vix papillatis; sporulis oblongis, utrinque rotundatis, constricto-1-septatis, 22 \simes 15, granulosis, olivaceo-fuligineis, initio basidiis crassiusculis subæquilongis, hyalinis suffultis.

Hab. in cortice Platani, Lyon in Gallia (THERRY). — Habitus Myxosporii sed perithecium adest sporæque biloculares.

137. Diplodia ditior Sacc. et Roum. in Michelia II. p. 623. Diplodia 1961 Platani Sacc. F. Gall. n. 2254. — Peritheciis late gregariis, subcutaneo-erumpentibus, globulosis, papillatis; sporulis oblongo-didymis, 25-30 = 10-12, leniter constrictis, fuligineis, hyalino-stipitatis.

Hab. in ramis corticatis Platani orientalis in Arduennis (LIBERT) Troyes in Gallia (BRIARD) et in Italia boreali. D. pauper-

cula B. et Br. sporulis minutis differt.

138. Diplodia Juglandis Fr. Summa Veg. Sc. p. 417, Sphæria Ju- 1962 glandis Fr. S. M. II. pag. 493. — Gregaria; peritheciis globosis, primo depressis immersis, dein erumpentibus levibus atris, ostiolo simplici pertusis, intus griseis; sporulis ovoideo-oblongis, didymis, medio constrictis, fuligineis, 24 ≈ 10-12.

Hab. in ramis corticatis Juglandis regiæ in Suecia, Germania, Helvetia, Italia, Gallia. — Cortici interiori primo innata, dein epidermide lacerata erumpens, opaca, parte superiore denudata prominula levi; intus primo farcta, dein evacuata, sed non collabens. — Ab hac forte non differt Sph. eructans Wallr. — Sec. Fuck. pycnidium sistit Cucurbitari Juglandis. — Var. veronensis (Mass.) Sacc. Sph. veronensis Mass. in Flora 1855, pag. 241, fig. 12: sporulis angustioribus, $18-24 \approx 6-6.3$, sæpe 2-4-nucleatis. In truncis juglandinis in agro veronensi.

139. Diplodia eructans (Wallr.) Sacc. Sphæria eructans Wallr. Fl. 1963 crypt. n. 3771. — Peritheciis minutis sparsis, subcutaneis nigris globosis, nucleo atro-violaceo glutinoso farctis, vertice umbonato, elevato-emerso; sporulis ovato-oblongis obtusis opacis uniseptatis, profusis, inquinantibus.

Hab. ad ramos juglandinos gelu tactos passim in Germania.

140. Diplodia populina Fuck. Symb. myc. p. 170. — Peritheciis gre- 1964 gariis, tectis, demum per epidermidem fissam erumpentibus, majusculis, applanatis, papillatis; sporulis oblongis ovatisve, magnitudine varia, 1-septatis, 23-25 ≈ 12-13.

Hab. in ramis Populi nigræ, Tremulæ et italicæ in Germania, Lusitania et Italia: — Sec. Phum. Contr. Myc. Lus. n. 560 a Diplodia mutila differt sporulis non constrictis. Pycnidium Otthice populince.

141. Diplodia mutila Fr. et Mont. Ann. Sc. nat. I. p. 302. Sphæria 1965 mutila S. Myc. II. p. 424. — Atra; peritheciis sociatis v. confluentibus globosis, superiore parte prominente inæquali rugosa, ostiolo simplici; sporulis stipitatis, ellipsoideo-didymis, utrinque rotundatis, 20-24 = 7-9, fuligineis.

Hab in ramis corticatis Populi in Suecia, Gallia, Germania, Italia, Belgio. — Perithecia in series flexuosas erumpunt, confluent, intus albido-farcta, demum evacuata, atra: stroma vix genuinum, sed cortex nigrescit.

142. Diplodia Carpini Sacc. Mich. II. p. 266. — Peritheciis dense gregariis epidermide velatis, vel hinc inde aggregatis erumpentibusque, globosis, atris, obtuse papillatis, (interdum, epidermide secedente, dimidiatis); sporulis oblongo-ovoideis, leniter constrictis, I-septatis, 20 ≈ 9-11, fuligineis.

Hab. in ramis Carpini Betuli, Padova, Selva Ital. ber., socià Cucurbilaria Carpini Sacc., cujus est pycnidium.

143. Diplodia Coryli Fuck. Symb. p. 393. — Peritheciis sparsis, magnis, globosis, erumpentibus, atris, ostiolis globoso-papilliformibus, minutissime perforatis; sporulis expulsis epidermidem atroinquinantibus, oblongis, inæqualibus.

Hab. in ramis emortuis Coryli Avellanæ in Germania, Italia, Gallia. — Pycnidium Otthice Coryli.

144. Diplodia Castaneæ Sacc. Mich. I. p. 225. — Peritheciis gregariis, 1968 dein liberatis, lignicolis, superficialibus, globulosis, papillulatis, atris; sporulis oblongis, constricto-1-septatis, 18-20 = 9-10, fuligineis.

Hab. in ramis decorticatis Castaneæ vescæ, Padova Ital. bor. (ΒιΖΟΣΕΡΟ). — Var. β. corticola: peritheciis subtectis, corticolis; ceterum non diversa. In ramis ejusdem corticatis Conegliano (Spegazzini) et in Gallia (Libert). — Var. γ. radicicola Sacc. Mich. II. p. 537: peritheciis sparsis, cortice suberoso dein elabente tectis, contextu indistincte parenchymatico subcarbonaceo, globoso-depressis; sporulis ellipsoideo-oblongis, utrinque rotundatis, 19-21 ≈ 9-10, initio granulosis, hyalinis, dein fuligineis, tandem sed rarius 1-septatis leviterque constrictis, basidiis cylindraceis hyalinis sporulam æquantibus initio suffultis. In radicibus tenuioribus languentibus v. emortuis Castaneæ vescæ in Apennino super. et in præalpinis circa Bugellam (prof. Gibelli). — Peritheciis depressioribus ostioloque obsoleto a typo nonnihil recedit.

145. Diplodia faginea Fr. Summa Veg. Scand. p. 417. — Peritheciis 1969 gregariis, globosis, nigris, subcutaneis, ostiolo papillato erumpente; sporulis ellipsoideis, 24 = 12, leniter constrictis, fuligineis.

Hab. in ramis corticatis Fagi silvatica in Italia, Gallia, Suecia, Germania. — Pycnidium videtur Massaria macrospora.

146. Diplodia suberina Dur. et Mont. Fl. Alg. I. p. 572. Syll. Crypt. 1970 n. 948. — Erumpens, convexula, tuberculosa, atra; peritheciis ovoideis aut sphæricis prominulis papillulatis albo-farctis; sporulis oblongis, junioribus hyalinis continuis (maturis haud observatis), stipitatis, undique centrum versus vergentibus, $25 \approx 12-13$.

Hab. ad ramulos Quercus Suberis, Algeria (Durieu), Coimbra in Lusitania. (Mesnier).

147. Diplodia Quercus Fuck. Symb. myc. p. 170. — Peritheciis cæ- 1971 spitoso-confluentibus, primo tectis, dein liberis, maximis, hemisphæricis, punctulato-scabris, atris; ostiolis minutis papilliformibus; sporulis oblongis, guttulatis, 30 = 10.

Hab. in ramis siccis Quercus in Germania et Gallia. — Pycnidium Otthice Quercus.

148. Diplodia quercina West. Bull. Ac. Belg. II. Ser. t. XII. n. 7.— 1972 Peritheciis sparsis, nigris, immersis, exiguis, epidermide atratula et varie fissa tectis; ostiolo papillato, erumpente; sporulis brunneis, ovoideis, bilocularibus.

Hab. in ramis Quercus, Gentinnes pr. Namur in Belgio (De LIMMINGHE).

149. Diplodia longispora C. et Ell. in Grevillea F. New Jers. n. 2304, 1973 fig. 7. — Subgregaria, semiimmersa, atra; peritheciis minutis; sporulis elongatis, uniseptatis, brunneis, 30-35 ≥ 7.

Hab. in ramis decorticatis Quercus coccineæ, New Jersey America borealis.

150. Diplodia cincta Fuck. Symb. myc. p. 395. — Peritheciis sparsis, 1974 tectis, per epidermidem pustulato-inflatam fissamque demum erumpentibus, basi applanatis, annulo nigro hirsutoque cinctis, vertice hemisphæricis, papillatis, atris; sporulis oblongis, didymis, fuscis.

Hab. in ramulis siccis Quercus in Rhenogovia, rarius.

151. Diplodia consimilis Dur. et Mont. Fl. Alg. p. 574. Syll. Crypt. 1975 n. 951. — Innata; peritheciis globosis opacis sparsis confluentibusque, stromate atro-fusco junctis, epidermide stellatim rupta cinctis, ostiolo vix prominulo instructis; sporulis oblongis, pellucidis bilocularibus.

Hab. in cortice Quercus cocciferæ apud La Calle in Algeria (Durieu).

152. Diplodia Betulæ West. in Kickx. Fl. crypt. Fl. I. p. 394. — Pe- 1976 ritheciis nigris, solitariis v. aggregatis, initio immersis, denique fere liberis; sporulis ovoideis, bilocularibus, brunneis.

Hab. in trunco Betulte nigræ in Belgio.

153. Diplodia scabra Fuck. Symb. myc. p. 395. — Peritheciis sparsis, 1977 tectis, media magnitudine, globosis, atris; ostiolis papillatis, perforatis, erumpentibus; sporulis oblongis, didymis, medio constrictis, atro-fuscis, 18 ≥ 8.

Hab. in ramis siccis Alni glutinosæ in Rhenogovia. — In ramulis superioribus occurrunt spermogonia (Phoma): sporulis oblongis, hyalinis, $10 \approx 2$.

154. Diplodia Alni Fuck. Symb. myc. p. 395. — Peritheciis tectis, sparsis confluentibusque, media magnitudine, globosis, atris; ostiolis papillatis, erumpentibus; sporulis oblongis, fuscis, didymis, 26 ≈ 9.

Hab. in ramis et truncis siccis Alni glutinosæ in Germania et Italia.

155. Diplodia Juniperi West. Bull. Ac. Belg. II. Ser. t. 12, n. 7. — 1979 Peritheciis solitariis, perexiguis, immersis, sparsis, epidermide tectis, ostiolo papillato brunneo perforante; sporulis ovoideo-oblongis, 18-20 ≈ 8-10, 1-septatis, non constrictis, fuscis.

Hab. in ramis Juniperi communis in Belgio, Gallia et Italia boreali. — β . foliicola Sacc. F. Gall. n. 2253: sporulis didymis fuscis, $24-26 \approx 10-11$. In Gallia. — *Dipl. Deodaræ Thüm. F. Litor. n. 145: sporulis multo minoribus, $11 \approx 7$, subovatis, loculo

1978

inferiore latiore. In ramis tenuioribus Cedri Deodaræ, Gorizia. «Si reapse sporulæ tam parvæ species distinguenda!»

156. Diplodia thujana Peck et C. Rep. on the St. Mus. N. Y. — 1980 Peritheciis subhemisphæricis v. ellipsoideis rugulosis v. substriatis, nigris; sporulis oblongo-ellipsoideis leniter constrictis, $18-23~\mu$. longis, fuligineis.

Hab. in cortice et ligno Thujæ occidentalis, Buffalo Amer. bor. (Clinton). — Formæ corticolæ sunt perithecia erumpentia epidermideque arcte cincta; formæ lignicolæ perithecia sunt sublibera et sæpe ellipsoidea. An hæc postrema potius Diplodiellæ species? — β . Thujæ orientalis (D. Thujæ Sacc. in Mich. nec West.): peritheciis gregariis v. subaggregatis, subcutaneo-erumpentibus; sporulis ovato-oblongis $20-25 \approx 10$, fuligineis. In Italia bor.

157. Diplodia virginiana Cooke et Rav. Fung. Amer. n. 151. — Spar- 1981 sa, tecta; peritheciis minimis, supra perforatis; sporulis ellipticis, uniseptatis, nec constrictis, brunneis, 20-25 ≈ 10.

Hab. in ramis Juniperi virginianæ, Aiken in Carolina inferiore Americæ borealis.

158. Diplodia thyoidea C. et Ellis in Grev. V. p. 32. — Peritheciis 1982 erumpentibus, subgregariis, globosis, papillatis, atris, nitidis; sporulis medio constrictis, cellulis globosis, brunneis, 25-28 = 12-13.

Hab. in ramis Cupressi thyoidis, New Jersey in America boreali.

159. **Diplodia cyparissa** C. et Harkn. Grev. 1881, p. 83. — Sparsa, 1983 tecta, epidermide elevata; peritheciis subglobosis, demum depressis; sporulis ellipticis, hyalinis, continuis, demum uniseptatis, brunneis, medio vix constrictis, 20-22 ≥ 9.

Hab. in ramis Cupressi macrocarpæ in California.

160. Diplodia sapinea (Fr.) Fuck. Symb. myc. p. 393. Sphæria sa- 1984 pinea Fr. S. M. II. p. 491. — Gregaria, erumpens; peritheciis globosis, levibus, fusco-atris, ostiolo papillæformi prominulo; sporulis ellipsoideo-oblongis, subinde inæquilateralibus, fuligineis, 24-26 = 12.

Hab. in ramis corticatis Pini silvestris, Abietis, Araucariæ in Suecia, Germania, Gallia, Italia. — Perithecia ad dimidium denudata, globosa vel leviter depressa, majuscula, primo fuscescentia, dein opaca nigra intus primo albo-farcta, dein evacuata: papilla distincta, prominens, demum decidua. — Var. β. lignicola. In ligno pineo aqua diu submerso in Gallia australi.

161. Diplodia Phoradendri Cooke Grev. XII. p. 23. — Sparsa, pro- 1985

nula; peritheciis globosis, atris, demum superne nudis; sporulis magnis, ellipticis, uniseptatis, fuscis, ad medium constrictis, $32 \approx 20$.

Hab. in Phoradendro, Seabord Sud Carolina in Amer. bor.

162. Diplodia microsporella Sacc. Mich. I. p. 96 et 517, F. it. n. 1986

99 (sub nom. D. microsporæ, sed non B. et C.). — Peritheciis laxe gregariis, epidermide tumidula velatis, dein semierumpentibus, globulosis, depresso-papillatis; nucleo farcto atro; sporulis oblongis, 10-15 \approx 4-5, rectis v. rarius inæquilateralibus, 1-septatis, vix constrictis, e strato proligero cellulari hyalino orientibus, fuligineo-ochraceis.

Hab. in ramulis corticatis putrescentibus Coryli Avellana, Quercus, Cerasi, Carpini, Aceris campestris, Pruni domesticæ, Fraxini (sp. 8-10 \approx 4, non constrictis), Acaciæ, Eucalypti, Myrtilli, Berberidis in Italia, Gallia, Algeria. — Var. β. Araucariæ Penz. et Sacc. F. Mort. t. V. f. 17. Peritheciis minutis, innatis, demum prorumpentibus, nigerrimis, carbonaceis, 80-100 μ . diam.; sporulis minutis, 9-10 \approx 4-5 crassis, atro-brunneis, ad septum sæpius constrictis. In foliis delapsis Araucariæ Bidwillii, Mortola Ital. bor. — Var. γ. Meliæ Sacc. et Roum. Rel. Lib. IV. n. 140. Peritheciis subcutaneo-erumpentibus, gregariis, subinde aggregatis, globosis, vix papillatis, atris; sporulis oblongis, utrinque rotundatis, 1-septatis, vix constrictis, $10-12 \approx 5-6$, rufo-fuligineis; basidiis non visis. — In ramis corticatis Meliæ Azedarach in Arduennis.

163. Diplodia consociata B. et C. Cub. Fungi n. 556. — Peritheciis 1987 ovatis, collo brevi, basin versus floccis brevibus vestitis; sporulis minutis, oblongis, 12-13 μ. longis.

Hab. in cortice ramorum in arvis insulæ Cuba.

164. Diplodia subglobata (Pr.) Sacc. Sporocadus subglobata Preuss 1988 F. Hoyersw. n. 337. — Peritheciis ovatis corneis, tum papillatis, cortici primo insertis (cujus epidermis tollitur); pulpa fusca; basidiis filiformibus; sporulis chlongis, inæqualibus, subbilocularibus, fuscis; episporio intense fusco; nucleo dilute-fusco cum guttulis oleosis.

Hab. in cortice arborum frondosarum, Hoyerswerda.

165. Diplodia globulosa Pass. Fungi Abiss. n. 38. — Peritheciis sub- 1989 globoso-depressis, atris, cavis, corticolis, erumpentibus; sporulis oblongo-ellipsoideis vel varie irregularibus, intense fuscis, continuis v. obscure 1-septatis, medio non v. vix constrictis.

Hab. in cortice vetusto, Keren in Abyssinia (Beccari).

II. In foliis et fructibus Dicotyledonearum lignosarum. (Cfr. n. 8. 9. 35. 86. 118. 125. 155. 162).

166. Diplodia phyllodiorum Penz. et Sacc. Fung. Mortol. n. 37, tav. 1990 V. fig. 20. — Peritheciis gregariis, minutis, hypodermicis, demum erumpentibus, 110-150 μ. diam., nigris, globulosis, apice haud depressis, maculis albis phyllodiorum insidentibus; sporulis didymis, ellipticis v. ovalibus, subinæqualibus, medio paullum constrictis, atro-brunneis, 6-10 ≈ 4-5; basidiis obsoletis.

Hab. in phyllodiis emortuis Acaciæ sp., Mortola in Ital. bor. 167. Diplodia phyllodii Cooke et Hark. in Grev. 1881. p. 83. — Spar- 1991 sa; peritheciis subglobosis, atris, prominulis, superne nudis; sporulis elongato-ellipticis, uniseptatis, brunneis, medio non constrictis, 22-25 = 9.

Hab. in phyllodiis Acaciæ in California.

168. Diplodia Leguminis-Cytisi Lév. Ann. Sc. nat. V. p. 293 (1846), 1992 Kickx Fl. I. p. 393. — Peritheciis globulosis, depressis, nigricantibus, exiguis, tectis, dense sparsis; nucleo albido; ostiolo papillato, epidermidem perforante; sporulis obtusis, brevibus, 1-septatis, brunneis.

Hab. in leguminibus pedunculisque Cytisi Laburni in Gallia et Belgio.

169. Diplodia acicola Sacc. Mich. II. p. 268 (Mart. 1881), Cesati 1993 Hedw. 1881 Oct. p. 145. — Peritheciis gregariis, innato-erumpentibus, globosis, ostiolo-conoideo, aterrimis; sporulis stipitellatis, ellipsoideis, 22-30 × 10-12, diu continuis hyalinis denique fuligineis, 1-septatis.

Hab. in foliis Pini silvestris in horto patavino Ital. bor., et Pinorum exoticarum in horto neapolitano Ital. merid. — Diplodia conigena Desm. differt sporulis multo majoribus, nempe, $28-32 \approx 12-14$; Diplodia sapinea Fr. peritheciis sæpius cæspitosoerumpentibus; sporulis $24-26 \approx 12$, leniter constrictis; Diplodia pinea (Desm.) Kickx sporulis multo majoribus, nempe $37 \approx 17$. — Var. β . Araucariæ Penz. F. Mort. n. 32: peritheciis gregariis, epidermide tectis, globosis; sporulis $24-25 \approx 13-14$, diu continuis, demum uniseptatis, atro-fuscis; basidiis crassiusculis, hyalinis, $18-20 \approx 8-10$, in foliis delapsis Araucariæ Bid willii, Mortola in Ital. bor.

170. Diplodia cupressina Cooke in Grev. — Sparsa; peritheciis atris, 1994 globosis, subsuperficialibus, minute papillatis; sporulis ellipticis, brunneis, uniseptatis, constrictis. $10 \approx 5$.

Hab. in foliis Juniperi, Darien, Georgia in Amer. bor.

171. Diplodia pinea (Desm.) Kickx Fl. cr. Flandr. I. p. 397. Sphce-1995 ria pinea Desm. Ann. Sc. nat. 1842, p. 14. — Peritheciis globoso-papillulatis, erumpentibus, in seriem sinuosam dispositis; ostiolo demum deciduo; sporulis oblongis, 35-40 = 16-18, stipitellatis, initio continuis, luteolis, dein 1-septatis, vix constrictis, fuligineis.

Hab. in acubus emortuis Pini montanæ et Pini silvestris in Gallia, Belgio et Italia. — Sec. Desm. et Karst. exstat quoque forma in cortice Pini silvestris et Abietis in Gallia

et Fennia.

172. Diplodia Taxi (Sow.) De Not. Micr. it. Dec. IV. fig. 9. Sphce- 1996 ria Taxi Sow. fig. 394. Fr. S. M. II. p. 500. — Gregaria, epidermide cinerescente tecta; peritheciis subimmersis convexis nigricantibus, demum epidermidem poro perforantibus; sporulis ellipsoideo-oblongis, utrinque rotundatis, stipitatis, 1-septatis non v. parum constrictis, 20-22 ≥ 10, fuligineis.

Hab. in foliorum pagina inf. et sup. Taxi baccatæ in Suecia, Britannia, Gallia, Belgio, Italia, Germania.

173. Diplodia Thujæ West, in Bull. Ac. Belg. II. Ser., t. XII. n. 7. 1997
— Peritheciis amphigenis, perexiguis, sparsis, epidermide atratula tectis; sporulis......

Hab. in foliis Thujæ orientalis, Namur in Belgio (Barbier).

174. Diplodia conigena Desm. XIII. Not. p. 69. — Peritheciis im- 1998 mersis, dein erumpentibus, subrotundis, gregariis, confluentibus, atris, subastomis; nucleo nigro; sporulis oblongis, utrinque obtusis, fuligineis, denique 1-septatis, 26-30 ≥ 12-15.

Hab. in squamis strobilorum Pini silvestris et Abietum

in Gallia, Belgio, Italia, Germania.

175. Diplodia megalospora B. et C. North Am. Fungi n. 420. — Pe- 1999 ritheciis sparsis, erumpentibus, obtusis; sporulis majoribus, oblongo-ellipticis, 37 ≈ 12.

Hab. in conis Pini Tædæ in Carolina inf. Amer. bor.

176. Diplodia petiolorum Sacc. Mich. II. p. 267. — Peritheciis minu- 2000 tis globoso-lenticularibus, epidermide tectis v. erumpentibus, obtuse papillatis, atris; sporulis ovato-oblongis, 20-25 ≈ 12-15, diu continuis, tandem 1-septatis, vix constrictis, fuligineis.

Hab. in petiolis foliorum Aceris Pseudoplatani, Selva in Italia boreali.

177. Diplodia Tini Sacc. Mich. II. p. 269. — Peritheciis subepider- 2001 micis, tandem erumpentibus, globoso-conoideis, pusillis, aterrimis;

sporulis ovato-oblongis, 22-12, 1-septatis, non constrictis, fuli-gineis.

Hab. in foliis Viburni Tini, Selva ın Italia boreali rarius.
— Var. β. ramulicola Sacc. In Arduennis in ramis Viburni Tini (LIBERT).

178. Diplodia Ilicis Fr. Summa Veg. Sc. p. 417. Sphæria Ilicis Fr. 2002 S. M. II. p. 501. Diplodia aquifolia West. — Gregaria, nigra; peritheciis globosis prominulis tectis, demum erumpentibus; sporulis elliptico- oblongis v. subturbinatis, stipitellatis, $20-24 \approx 12-14$, 1-septatis, vix constrictis, fuligineis.

Hab. in utraque pag. foliorum emortuorum Ilicis Aquifolii in Suecia, Gallia, Germania, Britannia, Italia, Belgio. — Perithecia epidermide, dein centro albido-pertusa velata, nitidula. — Diplodia aquifolia præbet sporulas simillimas sed continuas (ob immaturitatem?).

179. Diplodia Evonymi West. Exs. n. 930, Kickx Fl. cr. Fl. I. pag. 2003 395 (nec Fuck. quæ D. ramulicola). — Peritheciis sparsis, globuloso-papillatis, minutis, epidermide tectis, dein prominulis erumpentibusque; nucleo diu albido; sporulis ovoideo-oblongis, obtusis, tandem 1-septatis, 30 ≈ 10-12, fuligineis.

Hab. in foliis putrescentibus Evonymi japonici in Belgio, Gallia, Italia boreali.

180. Diplodia hedericola Sacc. Sphæria Hederæ West. F. Belg. exs. 2004 n. 173, nec Fr. — Peritheciis dense gregariis, sæpius epiphyllis, globoso-depressis, vix papillatis, atris epidermide velatis; sporulis obovatis, apice rotundatis, $10-12 \approx 5-6$, 1-septatis, non constrictis, fuligineis, 2-guttatis, basidiis bacillaribus, hyalinis, $5-6 \approx 2$.

Hab. in foliis emortuis Hederæ in Belgio.

181. Diplodia Oleandri Speg. Mich. I. p. 486. — Peritheciis laxe gre-2005 gariis, circinatim dispositis (an semper?), globosis, tectis, prominulis, ostiolo papillato exserto donatis, 200-300 μ . diam.; sporulis ellipticis vel ovoideis, fuligineo-olivaceis, subopacis, $25-30 \approx 10-14$, continuis (dein 1-septatis), basidiis hyalinis, $8-10 \approx 5-6$, suffultis.

Hab. ad folia dejecta Nerii Oleandri, Conegliano in Italia boreali.

182. Diplodia Buxi Fr. Summa Veg. Sc. p. 417. — Peritheciis sæ- 2006 pius hypophyllis, dense gregariis, globoso-depressis, vix papillatis, per epidermidem centro dein laciniatim fissam translucentibus; sporulis oblongo-ellipsoideis, 1-septatis, non vel vix constrictis, 20-24 ≈ 10-12, fuligineis.

Hab. in foliis emortuis Buxi sempervirentis in Suecia, Gallia, Italia.

183. Diplodia Aucubæ West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — 2007 Peritheciis epiphyllis, sparsis, globuloso-papillatis, epidermide atrata tectis; sporulis ovoideis, brunneis, bilocularibus.

Hab. in foliis Aucubæ japonicæ pr. Mons in Belgio (Р. Димонт).

184. Diplodia Mygindæ Winter Contr. Myc. Lus. n. 815. — Peri-2008 theciis sparsis, epiphyllis, sine macula, immersis, globosis, ostiolo punctiformi epidermidem pustulatim elevatam perforantibus, atris, 240 μ. circa latis; sporulis elliptico-oblongis, initio hyalinis et continuis, demum uniseptatis, medio non vel vix constrictis, fuscis, 24-25 ≈ 12-13.

Hab. ad folia arida Mygindæ pallentis in horto botanico Coimbra in Lusitania.

185. Diplodia salicella Sacc. Mich. II. p. 270. — Peritheciis sparsis, 2009 epidermide velatis, prominulis erumpentibusve, globulosis, subpapillatis, aterrimis; sporulis oblongis, 22-25 ≈ 12, quandoque curvulis, 1-septatis, non vel vix constrictis, aterrimis.

Hab. in foliis putrescentibus Salicis vitellinæ, Selva in Italia boreali. — A Dipl. salicina Lev. sporulis majoribus aterrimis præcipue differt.

186. Diplodia glandicola C. et Ell. in Grevillea. — Sparsa; perithe- 2010 ciis minimis, atris, vix prominulis; sporulis ellipticis, uniseptatis, brunneis, 25-28 ≈ 12, non constrictis.

Hab. in fructibus Coryli Avellanæ, New Jersey in Am. bor.

187. Diplodia dryadea Sacc. Mich. II. p. 267. — Peritheciis minutis 2011 erumpenti-superficialibus e globoso conicis, acutiusculis, atris; sporulis oblongis, 22 ≈ 12, diu continuis, fuligineis, basidiis duplo longioribus quandoque ramulosis suffultis.

Hab. in pagina inferiore foliorum putrescentium Quercus pedunculatæ in silva Montello Ital. bor.

188. Diplodia Embryopteridis Cooke in Grevillea. — Gregaria; pe- 2012 ritheciis atris, erumpentibus, poro pertusis; sporulis ellipticis, uniseptatis, brunneis (non constrictis) 25-28 ≈ 11.

Hab. in fructibus Embryopteridis glutiniferæ, Midnapore.

189. Diplodia Mahoniæ Sacc. M. V. n. 1402 et mich. I. p. 457. — Pe- 2013 ritheciis plerumque epiphyllis, globoso-depressis, 1/4 mill. diam.; gregariis, innato-erumpentibus, nigris; sporulis, hyalino-stipitatis,

ellipsoideo-oblongis, $22 \approx 12-14$, diu continuis, dein 1-septatis vix constrictis, fuligineis.

Hab. in foliis languidis Mahoniæ Aquifolii in horto patavino Ital. borealis.

190. Diplodia heteroclita Dur. et Mont. Fl. Alg. p. 576 et Syll. n. 2014 955. — Hypophylla; peritheciis innato-prominulis, globosis, tectis, apice rimose dehiscentibus, tandem elabentibus, maculis cinereo-rufescentibus insidentibus, 100-150 μ. d; sporulis oblongis initio continuis tandem bilocularibus fuscis.

Hab. in foliis Citri Aurantii in monte Bouzaréah in Algeria (Durieu).

191. Diplodia Photiniæ Speg. Mich. I. p. 485 et II. p. 269. — Perithe- 2015 ciis hemisphæricis, subepidermicis, carbonaceis, minutis, 130 μ. diam., papillatis; sporulis ochraceo-fuligineis diu continuis, dein 1-septatis, crassiuscule et obscurius tunicatis, quandoque 1-2-guttulatis, 22 = 12-14, ad septum sæpius non constrictis.

Hab. in foliis dejectis, putrescentibus Photiniæ serrulatæ, Conegliano, Selva in Italia boreali.

192. Diplodia rhodocarpa Cooke Grev. XII. p. 23 (D. rosæcarpa). 2016 Sparsa; peritheciis demum erumpentibus, subglobosis, atris, obtusis; sporulis ellipticis, uniseptatis, fuscis, ad medium constrictis, $20 \approx 10$.

Hab. in fructibus Rosæ in Carolina infer. Americæ borealis.
193. Diplodia Eriobotryæ Sacc. Mich. II. p. 267. — Peritheciis erum- 2017 pentibus. globosis, majusculis, conico-papillatis, aterrimis; sporulis oblongis, 20 ≈ 8, constricto-1-septatis, fuligineis.

Hab. in nervis foliorum Eriobotryæ japonicæ, Conegliano in Italia boreali.

194. Diplodia Lauro-Cerasi West. Bull. Ac. Belg. t. XII. n. 7. — 2018 Peritheciis epiphyllis, exiguis, sparsis, nigris, innatis demum subliberis, ostiolo papillato; sporulis ovoideis, bilocularibus.

Hab. in foliis Pruni Lauro-Cerasi, Mons in Belgio (P. Dumont). — «An eadem ac D. tecta?».

195. Diplodia consors B. et Br. Ann. N. H, n. 412. — Peritheciis 2019 gregariis, tectis, epidermide nitida, dein nigrescente et ad ostiolum perforans dealbata; sporulis minutis, ellipsoideo-oblongis, 1-septatis, fuligineis.

Hab. in foliis Pruni Lauro-Cerasi in Britannia. — A Diplodia tecta sporulis tertia parte brevioribus, nempe 12-15 μ . tantum longis differt.

196. Diplodia tecta B. et Br. Ann. N. H. n. 411. — Peritheciis tectis, 2020 gregariis, epidermidem bullatim inflantibus et leniter nigrificantibus; sporulis oblongis, diu continuis, majusculis, 20-22 = 12-14, dein 1-septatis leniterque constrictis.

Hab. in foliis emortuis Pruni Lauro-Cerasi et Pr. lusitanicæ in Britannia, Gallia et Italia.

197. Diplodia Malorum Fuck. Symb. myc. p. 395. — Peritheciis gregariis, sæpe confluentibus tectis, demum liberis, majusculis, globosis, atris, papillatis; sporulis dein ellipsoideis 1-septatis vix constrictis, 22-25 = 12:

Hab. in fructibus putrescentibus Piri et Mali in Germania, Italia.

198. Diplodia Ravenelii Cooke in Grevillea. — Hypophylla, gregaria 2022 vel sparsa; peritheciis atris, convexis, semiimmersis; sporulis elongato-ellipticis, brunneis 20 × 8.

Hab. in foliis Magnoliæ, Aiken in Carolina austr.

199. Diplodia punctipetiola Cooke in Grevillea. — Tecta; peritheciis 2023 globosis, prominulis, atris, sparsis; ostiolis papillatis; sporulis ellipticis, nec constrictis, brunneis, 30 ≈ 10.

Hab. in petiolis Magnoliæ grandifloræ, Aiken in Carolina superiore.

200. Diplodia Magnoliæ West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. 2024
 — Peritheciis epiphyllis, exiguis, immersis, nigris, nitidis; ostiolo papillato epidermidem perforante; sporulis ovoideis, bilocularibus, brunneis, leniter constrictis, 24-26 ≈ 10-11.

Hab. in foliis ramulisque Magnoliæ grandifloræ in hortis Italiæ et Belgii.

201. Diplodia maculata C. et Harkn. in Grev. 1881 p. 83. — Epi- 2025 phylla; maculis irregularibus, fuliginosis, fusco-marginatis; peritheciis applanatis, membranaceis, brunneis; sporulis ellipticis, pallide fuscis, uniseptatis 20 ≈ 5.

Hab. in foliis vivis Arbuti Menziesii (Madröno) in California.

202. **Diplodia Harknessi** Sacc. *Diplodia laurina* Cooke et Harkn. 2026 Grev. 1881, p. 83. — Epiphylla, sparsa, punctiformis; peritheciis convexis, atro-brunneis; sporulis ellipticis, uniseptatis, fuscis, 10-12 = 4.

Hab. in foliis Lauri in California.

203. Diplodia Rhododendri Bell. in West. Bull. Ac. Belg. t. 19, n. 9. 2027
— Peritheciis hypophyllis, minutis, punctiformibus, sparsis, nigri-

cantibus, tectis, dein semiemersis, hemisphæricis, ostiolo papillato; sporulis brunneis, ovoideis v. ovato-oblongis, $20 \approx 10-11$, constricto-l-septatis, atro-fuligineis.

Hab. in foliis Rhododendri arborei in hortis Namur in Belgio, et in ramulis Rhododendri pontici, Tarbes in Gallia.

204. Diplodia arbuticola (Fr.) Berk Outl. p. 317 Sphæria arbuti- 2028 cola Fr. S. M. II. p. 500. — Gregaria, confluens, epidermide nigrescente tecta, peritheciis difformibus nigris astomis, disco demum erumpente opaco; sporulis generis.

Hab. in foliis emortuis Arbuti (Arctostaphyli) Uva-Ursi in Suecia et Scotia. — Valde versiformis, ut plures species facile commutatas crederes. In utraque pagina foliorum ramulorumque, epidermide nigrescente, prominent puncta nigra, niditula, difformia, quæ sunt perithecia in parenchymate nidulantia epidermide adhuc tecta; dein findunt epidermidem in lacinias laxas inæquales, plerumque in lineas longas subramosas curvatas confluentia, nigra, opaca, varia. Xyloma cupulatum Fries Obs. 2. p. 360, nil est nisi status vetustissimus.

205. Diplodia petiolaris Peck, Rep. on the St. Mus. N. Y. — Peri- 2029 theciis minutis, sparsis, convexis v. depressis, nigris; sporulis ellipsoideis, 1-septatis leniter constrictis, plerumque 2-nucleatis, fuligineis, 20 μ. longis.

Hab. in petiolis foliorum dejectorum, Greenbush in Amer. bor. 206. Diplodia Phyllostictæ Cooke in Grevillea. — Macula pallida, brun-2030 neo-cincta; peritheciis semiimmersis, atris, gregariis; sporulis ellipticis, uniseptatis, parvulis, 16 = 8.

Hab. in foliis arborum silvaticarum, Mysore in India or.

207. Diplodia anomala Mont. Syll. n. 946 et Cent. III. n. 15, et 2031 Cuba, p. 332. — Sparsa conglomerataque, phyllogena; peritheciis innatis erumpentibus ovoideo-conicis acutis, apice poro pertusis; sporulis initio simplicibus (sphæropsideis) oblongis hyalinis pedicellatis, paraphysibus concomitantibus, demum violaceis bilocularibus.

Hab. in foliis coriaceis, Cuba (Auber).

III. In caulibus herbaceis Dicotyledonearum.

208. Diplodia fœniculina Thum. Contr. Myc. Lusit. n. 327. — Peri- 2032 theciis numerosis, subepidermicis postremo perforantibus liberisve, parvulis, nitido-atris, gregariis; sporulis ellipticis vel cylindrico-ellipsoideis, utrinque angustatis et rotundato-acutatis, medio non

Sphærioideæ, Phæodidymæ, Diplodia.

300

constrictis, sæpe leniter arcuatis et inæquilateralibus, dilute fuscidulis, $15-19 \approx 10-12$.

Hab. in caulibus emortuis Fæniculi officinalis, Mizarella pr. Coimbra in Lusitania (Moller).

209. Diplodia perpusilla Desm. in Ann. Sc. Natur. 1846, VI. p. 68. 2033 Sphæria Fæniculi Cast. Cat. plant. Mars. p. 176. — Peritheciis sparsis, numerosis, minutissimis, 100 μ . diam., nigris, epidermide primo tectis, dein superficialibus; sporulis ellipticis, medio leniter constrictis, utrinque subacutatis, dilute fuscis, cellula superiore paullulo majore, $8-11 \approx 4$.

Hab. in caulibus exsiccatis Fæniculi officinalis in Gallia. 210. Diplodia Linariæ Rabenh. Hedw. 1873, p. 141 (nomen).

Hab. in caulibus siccis Linariæ vulgaris, in primis in eorum areis dealbatis, in Germania.

211. Dipiodia sarmentorum Fr. Summa Veg. Scand. p. 417. Sphæria sarmentorum Fr. S. M. II. p. 498. — Sparsa, peritheciis hemisphæricis prominentibus levibus nitidis, intus atris, ostiolo prominulo sublacerato; sporulis ovoideo-oblongis didymis, 25-30 = 14, fuligineis, vix constrictis, stipitatis.

Hab. in sarmentis Menispermi canadensis in hortis Sueciæ, Germaniæ, Italiæ. — Perithecia utique tecta, sed valde prominent et quando epidermis tollitur, eidem ad dimidium adhærent, non collabentia. Ostioli papillæformis rudimentum rarissime adest, sed perithecia demum lacerata reperiuntur.

212. Diplodia Humuli Fuck. Symb. myc. p. 393. — Peritheciis cæ- 2036 spitosis solitariisve, erumpentibus, globosis, in rostrum breve cylindraceum attenuatis, rugulosis, atris; sporulis oblongis, æqualibus («22 = 12, leniter constrictis, fuligineo-nigricantibus»).

Hab. in sarmentis dejectis Humuli Lupuli in Germania et Gallia.

213. Diplodia Marsdeniæ Thum. F. austr. n. 1164. — Peritheciis gre- 2037 gariis, raro confluentibus, epidermide tectis, demum liberis, erumpentibus, majusculis, atris, fere globosis; sporulis ovato-oblongis, fuscis. 18 = 6.

Hab. in ramulis emortuis Marsdeniæ erectæ in horto botanico Pest in Hungaria (H. Lojka) et in horto bot. patavino.

214. Diplodia asclepiadea C. et Ell. in Grevillea. — Gregaria; pe-2038 ritheciis globosis, atris, papillatis, levibus, primo tectis, demum denudatis; sporulis ellipticis, brunneis, 2-nucleatis, rerisimiliter denique 1-septatis, 20-22 = 10.

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2034

Hab. in caule Asclepiadis, New Jersey in Amer. bor.

215. Diplodia gossypina Cooke in Grevillea. — Gregaria, erumpens; 2039 peritheciis subconicis, atris, subtus applanatis, fibrosis; sporulis ellipticis, olivaceo-brunneis, $22 \approx 12$.

Hab. in capsulis siccis Gossypii, Bombay in India et Wa-

shington in America boreali.

216. Diplodia Sidæ Pass. et Beltr. F. Sicul. n. 28. — Peritheciis sub- 2040 globosis longitrorsum seriatis, epidermidem pustulatim sublevantibus, dein denudatis, atris, minute papillatis, plus minus collabentibus; sporulis minutis, oblongo-ellipticis, didymis, fuscis, $7^1/_2 \approx 3^3/_4$ non vel vix constrictis.

Hab. ad ramos aridos Sidæ pictæ? Licata in Sicilia.

217. Diplodia Althææ Speg. Mich. I. p. 485. — Peritheciis superfi- 2041 cialibus, hemisphærico-conoideis, ostiolo papillato acutiusculo donatis, 250-300 μ. diam.; sporulis fuligineis, ellipticis, utrinque obtusis, 1-septatis, non vel vix constrictis, $16-20 \approx 8-9$.

Hab. in caulibus emortuis putrescentibus Althææ roseæ,

Conegliano in Italia boreali.

218. Diplodia hypericina Sacc. Mich. II. p. 266. — Peritheciis spar- 2042 sis, epidermide tectis, et quandoque ligno semiinfossis, globulosodepressis, obtuse papillatis, contextu distincte parenchymatico, nucleo initio albo-farcto; sporulis ellipsoideis, $20-25 \approx 15$, stipitellatis, diu hyalinis, dein fuligineis, tenuiter 1-septatis.

Hab. in caulibus Hyperici calycini, Selva in Ital. bor.

219. Diplodia Androsæmi Sacc. Mich. II. p. 266. — Peritheciis spar- 2043 sis epidermide tectis, dein erumpentibus, globosis, conoideo-papillatis, aterrimis; sporulis oblongis 20 = 8-9, constricto-didymis, ater rimis.

Hab. in caule Androsæmi officinalis in silva Montello Italiæ borealis.

220. Diplodia Dulcamaræ Fuck. Symb. mycol. p. 175. — Peritheciis 2044 seriatim dispositis, confluentibus, erumpentibus, media magnitudine, globosis irregularibusque, atris, papillatis; sporulis ovatis oblongisve fuscis, magnitudine variis (sec. Karst. ad septum constrictis, 22-25 = 12-13).

Hab. in ramulis aridis Solani Dulcamaræ, Hattenheim in Rhenogovia, Jakobstad in Fennia et Coimbra in Lusitania. - Sec. Fuckel pycnidium Cucurbilariæ Dulcamaræ Fr.

221. Diplodia obsoleta Karst. Symb. myc. Fenn. XV. p. 157. — Pe- 2045 ritheciis subgregariis, epidermide tectis, subsphæroideis, astomis v.

sæpius ostiolo perforante papillato, atris, glabris, 0.1-0.2 mill. d.; sporulis oblongis v. subellipsoideis, rectis v. leniter curvulis, subinde inæqualibus, septo obsoleto, flavescentibus, $6-8 \approx 2-3$, subeguttulatis.

Hab. in caulibus aridis Solani tuberosi, prope Mustiala Fenniæ.

222. Diplodia diatrype Lév. Ann. Sc. nat. 1846, p. 292. — Perithe. 2046 ciis sparsis v. 3-4 glomeratis, innatis globosis nigris, epidermide in orbem rupta circumdatis; ostiolis papillatis; sporulis generis.

Hab. ad ramos Lycii barbari prope Parisios. — Cl. Léveillé citat quoque in Fraxino excelsiore: an eadem species?

223. Diplodia Lycii Symb. myc. p. 394. — Peritheciis in cæspites 2047 oblongos linearesque erumpentibus, subconfluentibus, atris, globosis, demum depressis, minute papillatis; sporulis ovato-oblongis, fuscis.

Hab. in ramulis siccis Lycii barbari in Rhenogovia. — *D. lyciella Sacc. Mich. II. p. 622. — Peritheciis subsparsis, globosis, breve papillatis, erumpentibus, ½ mill. diam.; sporulis ovato-oblongis, 25 ≈ 10-12, 1-septatis, vix constrictis, fuligineis; basidiis bacillaribus, hyalinis. In ramulis corticatis Lycii barbari, Saintes in Gallia.

224. Diplodia rutæcola Thum. Contr. F. Litor. n. 141 tab. I. fig. 11. 2048

— Peritheciis minutis, dense gregariis, pulveris pyrii facie, prominulis, globosis, interdum confluentibus, nigris; sporulis cylindrico-ovatis, utrinque rotundatis, septatis, ad septa non vel leniter constrictis, parte inferiore interdum paullo latiore, impellucidis, fuscis, 20 ≈ 8-10.

Hab. ad ramulos emortuos Rutæ graveolentis, Gorizia in Italia boreali.

225. Diplodia sedicola Cooke et Harkn. in Grev. 1881, p. 82. — Spar- 2049 sa, prominula, erumpens; peritheciis subglobosis, atris; sporulis ellipticis, uniseptatis, brunneis, medio non constrictis, 20 = 8,5.

Hab. in caule Sedi in California.

226. Diplodia microscopica C. et Harkn. in Grev. 1880 p. 6. — Spar- 2050 sa, tecta; peritheciis minimis, vix conspicuis; sporulis ellipticis, pallide fuscis, uniseptatis, leniter constrictis, 10 ≈ 3.

Hab. in caule Cynoglossi in California.

227. Diplodia Georginæ (Corda) Lév. Ann. Sc. nat. 1846, pag. 292. 2051 Sporocadus Georginæ Corda Ic. III. p. 23, fig. 64. — Peritheciis punctiformibus, conicis, obtusiusculis, semiimmersis, atris, ostiolo

perforato; sporulis oblongis, constricto-1-septatis, fuscis, 22-26 μ. longis, basidiis paliformibus, hyalinis.

Hab. in caulibus subsiccis Georginæ variabilis in horto

botanico Prag in Bohemia.

228. Diplodia andicola Speg. Fung. Argent. I. p. 36. — Peritheciis 2052 sparsis, parenchymati immersis, lenticularibus, prominulis, atris, 1/5-1/4 mill. diam., ostiolo impresso donatis, membranaceis; contextu parenchymatico, fuligineo-olivaceo; sporulis ellipticis vel ovoideis, utrinque obtusis primo hyalinis, granuloso-farctis, dein fuligineis 1-pseudoseptatis, $15-20 \approx 8-10$.

Hab. in foliis emortuis Doniophyti andicoli in alpinis de

Catamarca Argentinæ.

229. Diplodia Abrotani Fuck. Symb. myc. p. 394. - Peritheciis te- 2053 ctis, seriatis, globosis, vertice applanatis, papillatis, atris, basi usque ad medium stramineo-tomentosis; sporulis oblongis, fuscis (a continuis?n).

Hab. in caulibus siccis Artemisiæ Abrotani in Rhenogovia. 230. Diplodia caulicola Fuck. Symb. myc. p. 392. — Peritheciis gre- 2054 gariis, magnitudine eorum Pleosporæ herbarum, globosis, tectis, atris, ostiolis cylindraceis, brevissimis, obtusis, perforatis, per epidermidem erumpentibus; sporulis oblongis («continuis?»).

Hab. in caulibus siccis Tanaceti vulgaris in Rhenogovia. 231. Diplodia sparsa Fuck. Symb. myc. p. 395. — Peritheciis tectis, 2055 demum per epidermidem fissam erumpentibus, majusculis, sparsis vel 2-4 aggregatis, globosis, nigris, nitidis; ostiolis minutis, papillatis; sporulis ovatis elongatisve, didymis, fuscis.

Hab. in caulibus siccis Spirææ Ulmariæ, rarius in Rheno-

govia.

232. Diplodia clematidea Sacc. Diplodia Clematidis Kalch. et Cooke 2056 in Grevillea 1880, p. 19, nec Sacc. — Sparsa, erumpens, epidermide cincta; peritheciis obtusis, atris, opacis; sporulis ellipticis, uniseptatis, non constrictis, fuscis, $12-14 \approx 5$.

Hab. in caulibus Clematidis brachiatæ ın Africa austr. 233. Diplodia Clematidis Sacc. Mich. I. p. 518. — Peritheciis grega- 2057

riis, subcutaneo-erumpentibus, globoso-papillatis, $^1\!/_{\!5}$ mill. diam.; sporalis ovoideis, $20-25 \approx 12-14$, diu continuis, fuligineis.

Hab. in sarmentis Clematis Vitalbæ, Saintes in Gallia (Bru-NAUD).

234. Diplodia Lupini Cooke et Harkn. in Grev. 1881, p. 82. — Spar- 2058 sa; peritheciis atris, globosis, semiliberis; sporulis ellipticis, utrin-

que subattenuatis, uniseptatis, medio constrictis, brunneis, cellulis subtriquetris, $28 \approx 10$.

Hab. in caulibus Lupini in California.

235. Diplodia elæospora Sacc. Mich. II. p. 105. — Peritheciis gre-2059 gariis, initio epidermide velatis, dein erumpentibus, globoso-papillatis, ½ mill. diam.; contextu parenchymatico fusco; sporulis ovato-oblongis, 18-20 ≈ 5-6, constricto-l-septatis rectis, utrinque obtusiusculis, pluriguttulatis, flavo-olivaceis, brevissime stipitatis.

Hab. in caulibus putrescentibus Medicaginis sativæ, Sain-

tes in Gallia (BRUNAUD).

236. Diplodia Passifloræ Penz. et Sacc. F. Mortol. n. 35, tav. V. fig. 2060 19. — Peritheciis sparsis vel laxe gregariis, epidermide tectis, demum erumpentibus, majusculis 180-200 μ. diam., globosis, ostiolo papillato, conico, contextu parenchymatico, aterrimo, carbonaceo; sporulis didymis, medio forte restrictis, loculo utroque fere globuloso, sphæroideo, brunneo-olivaceis, 23-25 = 11-12,5; basidiis obsoletis.

Hab. in pedunculis exsiccatis Passifloræ hybridæ, Mortola in Italia boreali.

237. Diplodia Aconiti Paul Brunaud in Roum. Revue Mycol. IV. p. 225. 2061

— Peritheciis sparsis vel aggregatis, tectis, dein erumpentibus, globuloso-depressis, nigris, lucidis; sporulis oblongis, 1-septatis, non
constrictis, fuligineis. 20 ≈ 8.

Hab. in ramis emortuis Aconiti Napelli, Saintes in Gallia.

238. Diplodia Ricini Sacc. et R. in Rev. Myc. III. p. 29. — Peri- 2062 theciis gregariis, tectis, globoso-conoideis, 1/6 mill. diam.; sporulis oblongis, 25 \(\times 6.5-7\), diu hyalinis, dein fuligineis 1-septatis, haud constrictis, stipitellatis.

Hab. in caule Ricini, Jardin du Hamma in Algeria.

239. Diplodia Euphorbiæ Brun. in Roum. Revue Myc. IV. p. 226. — 2063
Peritheciis epidermide tectis, dein erumpentibus, sparsis vel aggregatis, globuloso-convexis, nigris, lucidis, pertusis, ¼ mill. diam.; sporulis oblongis, initio hyalinis et continuis, granulosis, dein 1-septatis, fuliginosis, non constrictis, 24-25 ≈ 10-10,5.

Hab. in caulibus emortuis Euphorbiæ palustris, Saintes in Gallia.

240. Diplodia Rheea Cooke in Grevillea. — Sparsa, erumpens; peri- 2064 theciis atris, globosis, subpapillatis; sporulis ellipticis, fuligineis, demum uniseptatis, 20 = 8.

Hab. in caulibus Bæhmeriæ niveæ, Assam in India.

241. Diplodia vulgaris Lév. Ann. Sc. nat. 1846, p. 291. — Perithe- 2065 ciis globosis, innatis, gregariis, epidermide stellatim fissa tectis, intus albis («semper?»), ostiolis prominulis.

Hab. in caulibus corticatis variarum herbarum (Leveille), Hymenææ et Hederæ in Amer. bor. (CLINTON, RAVENEL), Dipte-

ricis in Cuba (BERKELEY).

242. Diplodia herbarum (Corda) Lév. Ann. Sc. nat. 1846, p. 292. Spo- 2066 rocadus herbarum Corda Ic. III. f. 63. — Peritheciis caulicolis, erumpentibus, gregariis, globoso-oblongis, convexis, dein inæqualiter depressis, nigris; sporulis oblongis, 1-septatis, leniter constrictis, fuligineis pedicellatis, 20-25 = 9-12.

Hab. in caulibus Lappæ, Thalictri, Lactucæ, Ferulæ, Gossypii, Lilii etc. in Gallia, Germania, Britannia, Italia, Algeria, America bor. — Var. β. Menthæ Sacc. Mich. I. pag. 517: peitheciis subcutaneis, minutis; sporulis ovato-oblongis, 25 = 10, constricto-l-septatis pedicellatis, atrofuligineis. In caule Menthæ, Saintes in Gallia. - Var. 7. Dianthi Sacc. Spec. p. 202, non Ces.: peritheciis cylindraceo-conicis, majusculis, atris; sporulis didymis fuscis, medio vix constrictis, 18 = 12. In caulibus Dianthi Caryophylli Patavii.

243. Diplodia Andamensis Cooke in Grevillea. — Gregaria, erum- 2067 pens; peritheciis applauatis, nigris, supra depressis, pallido-cinctis; sporulis ellipticis, brunneis, non constrictis, $28-30 \approx 12$.

Hab. in caule repente cujusdam plantæ dictæ Pilita Dak, in

insulis Andaman Oceani indici.

IV. In Monocotyledoneis.

244. Diplodia smilacina Berk. North Am. p. 67 (nomen), Sacc. M. V. 2068 n. 1027. — Peritheciis gregariis, subcutaneo-erumpentibus, prominulis, globoso-papillatis, atris, cuticula atrata nitida tectis v. cinctis; sporulis brevibus, didymis, 20 = 14, fuligineis.

Hab. in sarmentis emortuis Smilacis rotundifoliæ et tamnoidis, Ohio et Carolina super., et Smilacis Alpini in horto patavino Ital, bor. — Ubi cl. Berkeley speciem suam descrip-

serit, nunc me latet.

245. Diplodia Rusci Sacc. et Th. Mich. II. p. 625. — Peritheciis late 2069 gregariis, 1/6 mill. diam., subcutaneis, globulosis, ostiolo vix erumpente; sporulis oblongis, uniseptatis, leniter constrictis, utrinque obtusiusculis, 8-10 = 5-6, fuligineis.

Hab. in caule emortuo Rusci aculeati, St. Vallier (Drôme) in Gallia (Therry).

246. Diplodia minuscula Penz. et Sacc. F. Mort. n. 34, tav. V. fig. 2070 18. — Peritheciis minutissimis, gregariis, punctiformibus, innato-erumpentibus, depressis, brunneis, $67-100~\mu$. diam.; sporulis ellipticis vel ovoideis, medio septatis, loculis sæpius inæqualibus, atro-brunneis, ad septum haud constrictis, $8-10 \approx 2-3,5$.

Hab. in squamis exsiccatis Dracænæ indivisæ, Mortola in

Italia boreali.

247. Diplodia Agaves Niessl in Hedw. 1878, p. 176. — Peritheciis 2071 gregariis, minutis, epidermide velatis, depressis, atris; sporulis oblongis, rotundatis, medio 1-septatis, fuscis, 6-9 ± 4.

Hab. ad folia languida Agaves americanæ in India orient.

(Doct. S. Kurz).

248. Diplodia circinans B. et Br. F. of Ceyl. n. 786. — Peritheciis 2072 circinantibus epidermide nigrifacta centro pallido tectis; sporulis brevibus ellipticis obtusissimis 25 = 10.

Hab. in foliis Yuccæ gloriosæ et aloifoliæ in Ceylon et America boreali.

249. Diplodia Yuccæ West. V. Not. p. 18. — Peritheciis epiphyllis, 2073 sparsis, epidermide dein laciniatim fissa tectis, nigris, globuloso—papillatis; sporulis ovoideis, 2-locularibus, fuligineis.

Hab. in basi foliorum Yuccæ aloifoliæ in Belgio (Leburton) et in Lusitania (Moller). — Specimina, quæ vidi, italica in Yucca gloriosa (Erb. cr. ital.), ad Coniothyrium spectant.

250. Diplodia Radula B. et Br. F. of Ceyl. n. 785. — Peritheciis 2074 minutis epidermidem albifactam elevantibus, ostiolis distinctis; sporulis ellipticis, 25 µ. longis.

Hab. in Musaceis in insula Ceylon (BERK., BECCARI). — Ba-

sidia cuneiformia.

251. Diplodia pinnarum Passer. Micromyc. ital. diagn. sub n. 8, p. 2. 2075
Penzig in F. Mortol. n. 36. — Peritheciis sæpe seriatis, erumpentibus, globoso-conicis, atris; sporulis ellipsoideis minutis, 10-12 = 5-6, 1-septatis, vix constrictis fuligineis.

Hab. in foliis languidis Phænicis dactyliferæ in Liguria

(PASSERINI, PENZIG).

252. Diplodia Passeriniana Thum. Fungi nonnull. ital. novi. — Pe- 2076 ritheciis epiphyllis, raro amphigenis, sparsis, sæpe plus minusve in orbem dispositis, epidermide tectis, demum erumpentibus, minutis, atris, in macula exarida, sordide flavescenti, rufo-marginata, præ-



cipue in foliorum apicibus marcidis; sporulis parvis, ovalibus, utrinque rotundatis, uniseptatis, ad septum leniter constrictis, cinereis, $8-11 \approx 3.5-4.5$.

Hab. in foliis vivis v. languidis Phænicis et Chamæropis Genova, S. Remo, Bordigham in Liguria. — A Dipl. depazeoide distinguenda.

253. Diplodia palmicola Thum. F. Austr. n. 59. — Peritheciis nume- 2077 rosis, minutis, primo longe diu epidermide tectis, demum erumpentibus, subplanis, levibus vel leviter granulatis, subimmersis, atris, mox evacuatis; sporulis longe ellipticis, utrinque subacutatis, medio non constrictis, bicellularibus, sordide fuscis, impellucidis, 20 ≈ 10.

Hab. in epicarpio Cocos nuciferæ, Wien in Austria. — Sphæria palmicola Fr. Obs. mycol. I. p. 179 et S. M. II. p. 466 an eadem planta? — Differt a Diplodia epicocos Cooke Grev. VI. p. 102, sporulis medio non constrictis et paullo minoribus.

254. Diplodia cococarpa Sacc. Miscell. myc. F. Tah. n. 6. — Peritheciis dense gregariis, subcutaneo-erumpentibus, globosis, papillatis atris, intus nitidulis, ½ mill. diam.; sporulis stipitatis ellipsoideo-oblongis, 22 = 12, 1-septatis, vix constrictis fuligineis, subinde longitudinaliter striatulis, filamentis (paraphysibus?) filiformibus, hyalinis, duplo longioribus intermixtis.

Hab. ad parietem inter pericarpii putridi Cocos nuciferæ in insula Tahiti (G. Brunaud).

255. Diplodia epicocos Cooke in Grevillea t. 86, fig. 2. — Sparsa vel 2079 subgregaria; peritheciis demum superficialibus vel semiimmersis, globosis, atris; sporulis ellipticis, uniseptatis, constrictis, brunneis, 22 = 10-12.

Hab. in foliis juvenilibus emortuis Cocos nuciferæ in India orient.

256. Diplodia depazeoides Dur. et Mont. Fl. Alg. pag. 575 et Syll. 2080 Crypt. p. 266. — Amphigena, maculiformis; peritheciis minutis epidermide tectis, demum erumpentibus, globoso-depressis, atris, in utraque folii decolorati pagina obviis; basidiis brevibus, sporulas breviter oblongas biloculares sustinentibus.

Hab. in foliis Camæropis humilis, Mascara in Algeria (Du-RIEU) et Phœnicis dactyliferæ in horto botanico Coimbra in Lusitania (Moller).

257. Diplodia Calami Niessl in Hedw. 1878, pag. 176. — Peritheciis 2081; sporulis oblongis, obtusis, medio 1-septatis, fuscis, 8-10 μ. latis.

Hab. in foliis emortuis Calami in India orient. (Doct. Kurz).

258. Diplodia caricina Sacc. M. V. n. 1203. et Mich. I. p. 256. — Peri- 2082 theciis gregariis, globosis, innato-erumpentibus, atris, ostiolo conoideo parum emergente; sporulis obovoideis, 25 = 15, diu continuis, fuligineis.

Hab. in foliis emortuis Caricis japonicæ in horto patavino ltal. bor. (Bizzozero). — An Sphæropsis?

259. Diplodia pellica Cesati Hedw. 1882, p. 9, Syll. fung. II. p. 68. 2083
 — Peritheciis sparsis, subcutaneis, nigris; sporulis ovoideis utrinque obtusissimis, 20 ≈ 14, obscure septatis, brunneis.

Hab. in foliis Dasylirii juncei in horto botanico neapoli-

tano, socià Leptosphæria et Phoma.

260. Diplodia myriospora Sacc. Mich. II. p. 269. — Peritheciis gre 2084 gariis v. hinc inde aggregatis, erumpenti-superficialibus, globulosis, papillatis, piceis $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam.; contextu parenchymatico atrofuligineo; sporulis ellipsoideis, minutis, $5-6 \approx 2-\frac{1}{3}-3$, 1-septatis, non constrictis, fuligineis, basidiis brevissimis suffultis.

Hab. in culmo putri Arundinis Donacis intus et extus,

Padova in Italia boreali (Bizzozero).

261. Diplodia arundinacea Dur. et Mont. Fl. Alg. p. 574 et Syll. n. 2085 954. — Peritheciis innato-erumpentibus globoso-papillatis, sparsis v. aggregatis, atris opacis, tandem denudatis deciduis; basidiis longis; sporulis oblongis mature bilocularibus fuscis, 20-25 ≈ 12-15, medio vix constrictis.

Hab. intra culmum fistulosum Phragmitis communis, La Calle in Algeria (Durieu) et Arundinis Donacis, Padova in Italia boreali.

262. Diplodia Secalis (Lib.) Speg. et Roum. in Rev. Myc. Melanco-2086 nium Secalis Lib. Herb. — Peritheciis minimis globosis, tomentosis, nigris, epidermide tectis; sporulis minutissimis, ovoideis atris didymis, rarius continuis, fuligineis, 6-8 = 3-4, mox cirrose exsilientibus matricemque atro-inquinantibus.

Hab. in culmis putrescentibus Secalis cerealis prope Mal-

medy in Arduennis.

263. Diplodia Maydis (Berk.) Sacc. Sphæria Maydis Berk. Lond. 2087 Journ. 1847, p. 326, Sphæria Zeæ Curr. Simpl. Sphær. n. 358, f. 128. Dipl. Zeæ Lév. Ann. Sc. nat. 1848, p. 258. — Peritheciis gregariis, innatis, ovatis, intus extusque nigris, epidermide nigra tectis, ostiolis erumpentibus, conico-acutis; sporulis elliptico-cylin-

374 Sphærioideæ, Phæodidymæ, Chætodiplodia.

draceis, utrinque obtusiusculis subinde clavulatis, rectis vel curvulis, 1-septatis, vix constrictis, 25-30 = 6, fuligineis.

Hab. in culmis, interdum pallide maculatis, Zeæ Maydis in

Carolina, Ohio, New Jersey, Gallia, Italia frequens.

264. Diplodia Ischæmi Pass. Erb. critt. it. II. n. 594. — Peritheciis 2088 erumpentibus, aggregatis v. sparsis, subglobosis, atris, ostiolo vix prominulo; sporulis oblongo-ellipsoideis, initio continuis, hyalinis, tandem 1-septatis, non v. vix constrictis, 20-25 = 8-9, fuligineis; basidiis bacillaribus, hyalinis.

Hab. in culmis et rhizomatibus Andropogonis Ischæmi, Parma, Padova in Italia boreali (Pass., Sacc.) et Eisleben in Ger-

mania (Zopf).

MACRODIPLODIA Sacc. (Etym. macros longus v. magnus, et Diplodia). — Perithecia tecta, corticola, majuscula, massarioidea, vertice pertusa, Sporulæ oblongæ, l-septatæ, fuligineæ, strato mucoso hyalino obductæ, stipitellatæ. — Pycnidia Massariarum sistit genus.

1. Macrodiplodia Curreyi Sacc. et Roum. Reliq. Libert. IV. n. 138. 2089 - Peritheciis gregariis massarioides globulosis, tectis; sporulis oblongis, utrinque obtusiusculis, 60 = 18, medio 1-septatis, vix constrictis, fuligineis, strato mucoso obductis, dein eructando fædantibus; basidiis bacillaribus 10 μ . longis, hyalinis.

Hab. in ramis corticatis Tiliæ europææ in Arduennis (Libert).

- Pycnidium Massarice Curreyi.

2. Macrodiplodia Ulmi Sacc. Massarice Ulmi pycnid. Fuck. Symb. 2090 p. 153. — Peritheciis in corticis superiori parte nidulantibus, triplo minoribus quam fungi ascophori, nucleo sordide albo; sporulis oblongo-lanceolatis, medio 1-septatis, annulo hyalino, angustissimo, $64 \approx 26$.

Hab. in ramis corticatis Ulmi campestris in Rhenogovia.

CHÆTODIPLODIA Karst. Hedw. 1884, p. 62 (Etym. chæte seta, et Diplodia). — Perithecia setosa v. pilosa, erumpentia v. subsuperficialia, globoso-papillata, atra, membranaceo-carbonacea. Sporulæ oblongæ I-septatæ, coloratæ.

1. Chætodiplodia caulina Karst. Hedw. 1884, pag. 62. — Peritheciis 2091 gregariis subsuperficialibus subcarbonaceis, ovoideis, minute papillatis, atris, setulis substrictis, divergentibus, septatis, atris obsessis, 0,3 mill. diam.; sporulis oblongatis v. subellipsoideis, rectis

Sphærioideæ, Phæodidymæ, Diplodiella.

375

utrinque obtusis, 1-septatis, non v. vix constrictis, flavidis, $12-17 \approx 5-6$.

Hab. in caulibus emortuis (nigrificatis) Chenopodii albi, Mustiala in Fennia.

Chætodiplodia hirta Sacc. Massariæ hirtæ Pycnidium Fuck. Symb. 2092
 p. 155. — Peritheciis minutis, atris, pilis pallidioribus undique tectis, sub epidermide nidulantibus, majusculis; sporulis ovatis oblongisve, plerumque uniseptatis, rarius 2-3-septatis, fuscis, 10 ≈ 4-5.

Hab. in ramis corticatis Sambuci racemosæ in Rhenogovia.

3. Chætodiplodia arachnoidea (Ces.) Sacc. Diplodia arachnoidea Ces. 2093 Hedw. I. p. 41, t. V. fig. 1, — Peritheciis stromate punctiformi byssino radiante evanido insidentibus, nunc minutissimis etiam adultis, et tum dense aggregatis, nunc grani Sinapeos magnitudine et sparsis magis, semper regularibus, e lata basi ovatis vel conicis, nigris sed denso tegmine araneoso cinereo velatis, nisi papilla obtusa atra emergente; sporulis didymis, opacis, olivaceis; cirris aterrimis.

Hab. in ligno laricino vernice olearia obducto in Lyceo vercellensi Italiæ bor.

4. Chætodiplodia chætomioides (Ces.) Sacc. Diplodia chætomioides 2094 Ces. Hedw. I. t. V. f. 2. a-f. (sine diagnosi). — Peritheciis dense gregariis subsuperficialibus inæqualibus, globoso-oblongis, apice obtusis v. rotundatis v. subconicis, atris, pilis patulis brevibus conspersis; sporulis oblongis, utrinque rotundatis, typice biguttatis, subinde medio leniter constrictis, fuligineis, stipitellatis.

Hab. in asseribus laricinis vernice e recenti illitis, aëri et luci expositis, Vercelli in Italia superiore, socia Chælodiplodia arachnoidea. — Sporulæ continuæ revera delineatæ sunt, sed quia biguttatæ et medio leniter constrictæ verisimiliter biloculares fierent.

5. Chætodiplodia hirtella Sacc. Mich. II. p. 268 (sub Diplodia). — Pe-2095 ritheciis sparsis, erumpenti-subsuperficialibus, globoso-papillatis, aterrimis, setulosis; sporulis oblongo-ellipsoideis, 25-28 = 12-14, diu hyalinis, stipitellatis, medio subconstrictis.

Hab. in foliis Pittospori Tobiræ in horto patavino Italiæ borealis.

DIPLODIELLA (Karst. Hedw. 1884, p. 62 (Etym. a Diplodia, cui affine genus). — Perithecia superficialia, plerumque lignicola, globoso-papillata, atra, glabra, subcarbonacea. Sporulæ ellipsoideæ v. oblongæ, 1-septatæ, coloratæ.

1. Diplodiella crustacea (Karst.) Hedw. 1884, pag. 62. — Peritheciis 2096 confertissimis, crustaceo-aggregatis, superficialibus, carbonaceis. subovoideis, vertice attenuatis, atris, glabris, nitidis, 0,3-0,4 mill. diam.; sporulis oblongatis v. ellipsoideis, utroque apice obtusis, rectis v. subrectis, 1-septatis, septo non v. vix constrictis, diluté. fuscidulis, 8-13 = 3-4.

Hab. ad lignum pineum prope Mustiala in Fennia.

2. Diplodiella fibricola (Berk.) Sacc. Diplodia fibricola Berk. Hook. 2097 Journ. 1853, p. 42, t. III. f. 12. - Maculis pallidis v. obsoletis; peritheciis minutis elongatis, fibrarum cursum sectantibus; sporulis minutis; ellipsoideis, medio leniter constrictis septatisque, $6~\mu$. longis pallide ochraceo-brunneis.

Hab. in ligno Populi italicæ, King's Cliffe in Britannia.

3. Diplodiella oospora (Berk.) Sacc. Diplodia oospora Berk. Hook. 2098 Journ. 1853, p. 42, t. II. f. 11. - Maculis olivascentibus; peritheciis minutis, elongatis; sporulis minutis, obovatis, brunneo-ochraceis, 1-septatis, $7.6 \approx 6$.

Hab. in ligno salicino, King's Cliffe in Britannia.

4. Diplodiella quercella Sacc. et Penz. Mich. II. p. 623 (sub Diplodia). 2099 - Peritheciis subsuperficialibus, sparsis, globosis, papillatis, minutulis, atris; sporulis oblongis, 1-septatis, lenissime constrictis, $18-19 \approx 7-9$, fuligineis; basidiis teretiusculis, hyalinis, $15-16 \approx 2-2.5$. Hab. in ligno denudato putrescente Quercus, Lyon in Gallia (THERRY).

5. Diplodiella fibriseda Sacc. Mich. II. p. 270. (sub Diplodia). — Pe- 2100 ritheciis minutis e fibris ligneis erumpentibus, globoso-oblongis, papillulatis, aterrimis; sporulis diu hyalinis, continuis, guttulatis. tandem 1-septatis, vix constrictis, 20-25 = 12-13, fuligineis.

Hab. in ligno denudato Juglandis et Broussonetiæ, Vittorio, Padova in Italia boreali. - Habitus Dipl. fibricolæ Berk.,

sed sporulæ diversissimæ.

6. Diplodiella decorticata (C. et Ell.) Sacc. Diplodia decorticala C. et 2101 Ell. in Grevillea. - Subgregaria; peritheciis breviter hysterii-formibus, atris, in fibrillis insidentibus; sporulis ellipticis, profunde constrictis, brunneis, $20-25 \approx 12-15$, loculis depresso-sphæroideis.

Hab. in ramis decorticatis Sassafras, New Jersey in America boreali.

7. Diplodiella millegrana (C. et Harkn.) Sacc. Diplodia millegrana 2102 C. et Harkn. in Grevillea n. 64. — Superficialis, gregaria; peritheciis subglobosis, atris, levibus, minimis; sporulis ellipticis, uniSphærioideæ, Phæodidymæ, Botryodiplodia.

377

septatis, utrinque rotundatis, medio non constrictis, læte fuscis, $22-30 \approx 8$.

Hab. in ramis decorticatis Acaciæ in California. — Habitus fere Roselliniæ millegranæ.

8. Diplodiella Tecomæ (C.) Sacc. Diplodia Tecomæ Cooke in Grevil- 2103 lea. — Erumpens, demum libera; peritheciis globosis vel piriformibus, atris, sparsis; sporulis ellipticis, uniseptatis, nec constrictis, utrinque nucleatis, atrobrunneis, 30 ≈ 12.

Hab. in ligno Tecomæ radicantis, Aiken Carolinæ inf. in Amer. bor. — An forma lignicola Diplodiæ Tecomæ Pass.?

Diplodislla lignicola (Peck) Sacc. Diplodia lignicola Peck Rep. on 2104
the St. Mus. N. Y. — Peritheciis sparsis v. gregariis, prominulis,
subglobosis, nigris; sporulis oblongis, constricto-1-septatis, 35 = 10.

Hab. in ligno decorticato Abietis balsameæ, Adirondack in America boreali.

- 10. Diplodiella Cowdelli (B. et Br.) Sacc. Diplodia Cowdellii B. et 2105 Br. Ann. N. H. n. 406. Peritheciis liberis, globosis, nigris, vertice demum dehiscentibus; sporulis minutis, ellipsoideis, 1-septatis. Hab. in pappo udo Gossypii, cui maculas atras affert, in Britannia.
- 11. Diplodiella diversa (Speg.) Sacc. Diplodia diversa Sp. F. Arg. 2106 Pug. III. n. 120. Peritheciis ligno denudato insidentibus, lenticulari-hemisphæricis, atris, carbonaceis, ½ mill. diam., ostiolo papillato donatis; sporulis cylindraceo-ellipticis, medio 1-septatis, non v. vix constrictis, 20-22 = 8-10, fuligineis.

Hab. in sarmentis putridis Araujæ albentis en la Boca del Riachuelo in Argentina.

- **BOTRYODIPLODIA** Sacc. Mich. II. p. 7. (Etym. botrys racemus et *Diplodia*, h. e. Diplodia racemoso-congesta). Perithecia botryo-so-congesta, erumpentia, stromate basilari suffulta, membranaceo-carbonacea, sæpius papillata. Sporulæ oblongæ v. ovoideæ, 1-septatæ, fuligineæ.
- 1. Botryodiplodia juglandicola (Schw.) Sacc. Diplodia juglandicola 2107 (Schw.) Curr. Comp. Sphær. p. 276, fig. 121. Sphæria juglandicola Schw. Cfr. Syll. II. p. 379. Innata, prominens, pustulis in series parallelas confluentibus, stromate corticali circumscripto; sporulis ovato-oblongis, constricto-1-septatis, 23-25 u. longis, fuligineis.



Hab. in ramis corticatis Juglandis albæ in Carolina Amer. bor. — Habitus, teste Curreyo, Melanommatis Pulveris-pyrii.

2. Botryodiplodia confluens (B. et Br.) Sacc. Diplodia confluens B. 2108 et Br. Ann. N. H. n. 408. - Peritheciis confluentibus cæspitulosque epidermide arrecta cinctos depressos formantibus, irregularibus subinde collabascentibus; ostiolo obsoleto; sporulis oblongis.

Hab. in ramis Daphnes Laureolæ in Britannia et Gallia.

3. Botryodiplodia congesta (Lév.) Sacc. Diplodia congesta Lév. Ann. 2109 Sc. nat. 1846, p. 290. — Peritheciis aggregatis, globosis, innatis, demum erumpentibus nigris epidermide lacerata cinctis, ostiolis prominulis; («sporulis oblongo-ellipsoideis, utrinque rotundatis, $26-28 \approx 10-12$, diu hyalinis plasmateque bipartito, tandem obscure 1-septatis, fuligineis, non vix constrictis; basidiis 18-20 μ . longis n).

Hab. ad corticem Juglandis regiæ pr. Paris in Gallia, et

in Italia boreali.

4. Botryodiplodia Fraxini (Fr.) Sacc. Diplodia Fraxini Fr. Summa 2110 Veg. Sc. p. 417. Sphæria Fraxini Fr. S, M. II. p. 493 p. p.? — Cæspitoso-erumpens; peritheciis globosis, papillatis, stipatis, nigris; sporulis clavato-didymis, 20-25 = 10, fuligineis, corticatis, hyalinostipitatis.

Hab. in ramis corticatis Fraxini excelsioris et Orni in Suecia, Germania, Italia, Gallia.

5. Botryodiplodia scabrosa (West.) Sacc. Diplodia scabrosa West. 2111 Exs. n. 1372, Kickx Fl. cr. Fl. I. p. 398. — Peritheciis majusculis, cæspitoso-erumpentibus, tuberculosis, nigris, poro pertusis; sporulis inæqualibus, ovoideis v. ellipsoideo-oblongis, I-septatis, subinde constrictis, fuligineis.

Hab. in trunco emortuo Ailanthi glandulosæ in Belgio. 6. Botryodiplodia Ailanthi (Cooke) Sacc. Diplodia Ailanthi Cooke in 2112 Rav. Fung. Amer. n. 150 et in Grevillea. - Erumpens; peritheciis in pustulas congestis, epidermide cinctis; sporulis ellipticis,

uniseptatis, non constrictis, brunneis, 25-28 = 10.

Hab. in ramis Ailanthi glandulosæ in Carolina Amer. bor. — An diversa a Botr. scabrosa?

7. Botryodiplodia Ravenelii Sacc. Mich. I. — Peritheciis botryose ag- 2113 gregatis, stromate pulvinato suffultis, globuloso-depressis, nigris, intus initio albis, 1/6 mill. diam.; sporulis ellipsoideis, diu continuis, $30 \approx 17$, dein 2-locularibus, leniter constrictis, fuligineis, 25 pprox 16, basidiis filiformibus subæquilongis suffultis.

 ${\it Hab}$. in cortice sarmentorum Carolinæ infer. in America bor. (RAVENEL).

8. Botryodiplodia compacta (C. et Ger.) Sacc. Diplodia compacta C. 2114 et Ger. in Grevillea. — Pustulis erumpentibus, epidermide cinctis; peritheciis confluentibus, obtusis; sporulis ellipticis vel biglobosis, brunneis, constrictis, 30 = 18.

Hab. in ramis arborum Americae borealis.

9. Botryodiplodia valsoides (Peck.) Sacc. Diplodia valsoides Peck. 2115 Rep. on the St. Mus. N. Y. — Peritheciis cæspitosis, cortice interiore nidulantibus, in ostiola longa stromate olivaceo juncta attenuatis, per corticem transverse fissum erumpentibus, nigris; sporulis oblongo-ellipsoideis, profunde constrictis, coloratis, 18-19 μ. longis.

Hab. in cortice Betulæ populifoliæ, Center in Amer. bor.

— Habitus Valsæ cujusdam.

10. Botryodiplodia cyanostroma (B. et C.) Sacc. Diplodia cyano- 2116 stroma B. et C. North Am. Fungi n. 423. — Peritheciis in stromate cyaneo abditis, pustulato-aggregatis; sporulis breviter obovatis vel oblongis pallidis, 12-13 ≈ 6.

Hab. in ramis dejectis in Pensylvania. — Si sporulæ semper pallidæ manent, vix Botryodiplodiæ species.

11. Botryodiplodia Celastri (C.) Sacc. Diplodia Celastri Cooke in 2117 Grevillea. — Cæspitosa, erumpens; peritheciis atris, compressis, elongatis, vix papillatis; sporulis ellipticis, uniseptatis, brunneis, vix constrictis, 25 ≈ 10.

Hab. in ramis Celastri, New York in Amer. bor.

12. Botryodiplodia compressa (Cooke) Sacc. Diplodia compressa 2118 Cooke. — Diatrypeformis, erumpens; peritheciis in cæspitulos erumpentes congestis, atris; sporulis late ellipticis, uniseptatis, non constrictis, brunneis, 20 ≈ 12-14.

Hab. in ramis Rhois, New York in Amer. bor.

13. Botryodiplodia hypoxyloidea (C.) Sacc. Diplodia hypoxyloidea 2119 Cooke in Grevillea. — Cæspitosa, erumpens; peritheciis atris, papillatis, in pulvinulos convexos congestis, stromate diatrypoideo; sporulis ellipticis, atro-brunneis, uniseptatis, leniter constrictis, 18-20 = 8.

Hab. in cortice radicis Moringæ in Bengala.

14. Botryodiplodia sphærioides (Fr.) Sacc. Dothiora sphærioides (Fr.) 2120 Cooke Handb, n. 1255. — Gregaria subfasciculata erumpens, ir-

Sphærioideæ, Phæodidymæ, Botryodiplodia.

regulariter angulata, dein plana, nigra, intus albida; sporulis maturis (teste Capron in Cooke I. c.) diplodioideis.

Hab. in ramis Fraxini in Britannia et Suecia.

15. Botryodiplodia pyrenophora (Berk.) Sacc. Dothiora pyrenopho- 2121 ra Berk. Exs. n. 282, Cooke Handb. n. 1254. — Erumpens elliptica, plano-depressa, nigra, intus pallida; sporulis (teste Cooke) 1-septatis, brunneis, diplodioideis.

Hab. in ramis Sorbi, Mali et Piri in Suecia et Britannia.

- Primo adspectu Dothidece ribesice simillima.

16. Botryodiplodia? loculata (Mont.) Sacc. Diplodia loculata Mont. 2122 Fl. Chil., VII. p. 483, t. 9, f. 10 et Syll. n. 945. — Peritheciis gregariis globosis cortice innatis prominulis (varioloideis) epidermide cinctis atris, in loculamenta divisis albis, ostiolo obsoleto; sporulis oblongis breviter stipitatis, sero septatis.

Hab. in ramis emortuis, Chile (BERTERO).

REPERTORIUM

SPHÆRIOIDEARUM PHÆODIDYMARUM

SECUNDUM MATRICES

Obs. B. indicat Botryodiplodia. - C. Chelodiplodia. - D. Diplodia. -De. Diplodiella. - M. Macrodiplodia.

> N. 1825 — 1999 citantur 825 — 999 N. 2001 — 2122 citantur 1 — 122

Abies — D. 948. 995. 998. — De. 104. Arundo — D. 84. 85. Acacia — D. 863. 864. 865. 986. 990. 991. — De. 102. Acer — D. 834. 855. 836. 986. 2000. Aconitum - D. 61. Æsculus - D. 837. Agave - D. 71. Ailanthus — D. 844. 946. — B. 111. 112. Albizzia - D. 862.

Alnus — D. 977, 978, Althæa - D. 41.

Amelanchier - D. 899.

Amorpha — D. 872.

Amygdalus — D. 890. Andropogon - D. 88.

Androsæmum - D. 43.

Anona - D. 825.

Araucaria - D. 984, 986, 993.

Arauja - De. 106.

Arbutus - D. 924. 25.

Arctostaphylos - D. 28.

Artemisia — D. 53.

Asclepias - D. 38. Aucuba - D. 915. 7.

Berberis - D. 826, 983.

Betula — D. 876. — B. 115. Bignonia - D. 933.

Boehmeria - D. 64.

Broussonetia - D. 955. -- De. 100.

Buxus - D. 942, 943, 6.

Calamus - D. 81. Calycantus - D. 902.

Carex - D. 82.

Carica - D. 952.

Carpinus — D. 966, 986.

Cassia - D. 871.

Cassinopsis - D. 847.

Castanea - D. 968.

Celastrus - B. 117. Celtis - D. 944. 945.

Cercis - D. 866.

Chamærops - D. 76. 80.

Chenopodium — C. 91.
Chimonanthus — D. 901.
Chimonanthus — D. 931.
Citrus — D. 832. 833. 14.
Clematis — D. 56. 57.
Cocos — D. 77. 78. 79.
Cornus — D. 914.
Corylus — D. 967. 986. 10.
Cratægus — D. 887.
Cupressus — D. 982. 983.
Cydonia — D. 888.
Cynoglossum — D. 50.
Cytisus — D. 867. 868. 954. 992.

Daphne — B. 108.
Dasylirion — D. 83.
Dianthus — D. 66.
Dipterix — D. 65.
Doniophytum — D. 52.
Dracæna — D. 70.

Edgworthia — D. 933.
Elæagnus — D. 941.
Embryopteris — D. 12.
Eriobotrya — D. 17.
Evonymus — D. 846. 3.
Eucalyptus — D. 906. 907. 908. 986.
Euphorbia — D. 63.

Fagus — D. 969. Ferula — D. 66. Ficus — D. 948. 949. 953. Fœniculum — D. 32. 33. Fraxinus — D. 925. 986. — B. 110. 120.

Garrya — D. 940. Georgina — D. 51. Gleditschia — D. 858. 949. Gossypium — D. 39. 66. — De. 105.

Hedera — D. 913. 4. 65. Hibiscus — D. 827. 828. Humulus — D. 36. Hymenæa — D. 65. Hypericum — D. 42.

Iasminum - D. 926.

Ilex — D. 848. 2. Incarvillea — D. 935. Iuglans — D. 962. 963. — De. 100. — B. 107. 109. Iuniperus — D. 979. 981. 994.

Kœlreuteria — D. 838. Kerria — D. 878.

Lactuca — D. 66.

Lagerstremia — D. 903.

Lappa — D. 66.

Larix — C. 93. 94.

Laurus — D. 937. 946. 26.

Ligustrum — D. 929. 930.

Lilium — D. 66.

Linaria — D. 34.

Lonicera — D. 916. 917. 918. 919.

Lupinus — C. 58.

Lycium — D. 46. 47.

Maclura — D. 950. 951.

Magnolia — D. 22. 23. 24.

Mahonia — D. 13.

Marsdenia — D. 37.

Medicago — D. 59.

Melia — 986.

Menispermum — D. 35.

Mentha — D. 66.

Moringa — B. 119.

Morus — D. 954. 956. 957. 958.

Musa — D. 74.

Myginda — D. 8.

Nerium - D. 932. 5.

Olea — D. 927. Opuntia — D. 910.

Paliurus — D. 852.
Passiflora — D. 60.
Paulownia — D. 936.
Persica — D. 889.
Phænix — D. 75. 76. 80.
Phoradendron — D. 985.
Photinia — D. 15.
Phragmites — D. 85.

Pinus — D. 984, 993, 995, 998, 999, — De. 96.

Pirus — D. 891, 892, 993, 894, 21, — B. 122,

Pittosporum — D. 939. — C. 95.

Platanus — D. 916, 959, 960, 961, Poinciana — D. 873.

Populus — D. 964. 965. — De. 96.

Prunus — D. 883, 884, 885, 886, 895, 986, 18, 19, 20,

Pterocarpus - D. 860.

Punica - D. 900.

Quercus — D. 970. 971. 972. 973. 974. 975. 986. 11. — De. 99.

Rhamnus — D. 849. 850. Rhododendron — D. 27. Rhus — D. 853. 854. 855. 856. 955. —

B. 118. Ribes — D. 911. 912.

Ricinus - D. 62.

Robinia — D. 861.

Rosa — D. 874. 875. 876. 877. 16.

Rubus — D. 879. 880. 881. 882.

Ruscus — D. 69. Rutá — D. 48.

Salix — D. 9. — De. 97. 98. Sambucus — D. 921. — C. 92. Sarothamnus — D. 870. Sassafras — De. 101. Secale — D. 86. Sedum — D. 49.

Sida — D. 40.

Smilax — D. 68.

Solanum — D. 44, 45, Sophora — D. 859.

Sorbus — B. 121.

Spiræa — D. 896. 897. 55.

Staphylea - D. 845.

Symphoricarpos — D. 920. Syringa — D. 928.

Tamarix — D. 904. 905. Tanacetum — D. 54.

Taxus — D. 996.

Tecoma — D. 934. — De. 103.

Terminalia - D. 909.

Thalietrum — D. 66. Thuja — D. 980, 997.

Tilia — D. 829. 830. 831. — M. 89.

Ulex - D. 869.

Ulmus - D. 946. 947. - M. 90.

Vaccinium - D. 986.

Viburnum - D. 922, 923, 1.

Vitis - D. 839. 840. 841. 842. 843.

Wistaria - D. 857.

Yucca - D. 72. 73.

Zea - D. 87.

Zizyphus - D. 851.

Sect. 4. Hyalodidymæ Sacc.

Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, hyalinæ vel chlorinæ.

Clavis analytica generum.

§ Perithecia non rostrata.

 $\frac{1}{4}$ Perithecia areolis decoloratis plerumque innata, h. e. maculicola. Ascochyta. Perithecia lenticularia, poro pertusa, minuta, plerumque phyllogena; sporulæ muticæ.

Robillarda. Perithecia Ascochytæ; sporulæ apice longe setigeræ.

++ Perithecia non maculicola.

A) Pasidia (ubi adsunt) monospora.

Actinonema. Perithecia subiculo radiante arachnoideo adnata, phyllogena; sporulæ in subg. Asteromidio 2-pluriseptatæ.

Darluca. Perithecia subiculo destituta, sæpius uredinicola; sporulæ utrinque mucoso-apiculatæ.

Diplodina. Perithecia subiculo destituta, ramicola; sporulæ muticæ.

B) Basidia pleuro-pleiospora.

Cystotricha. Perithecia subhysterioideo-dehiscentia; sporulæ in basidiis bacillaribus articulatis pleurogenæ.

§§ Perithecia rostellata.

Rhynchophoma. Perithecia erumpentia vel subsuperficialia.

ASCOCHYTA Lib. Exs. p. minore parte, Sacc. Mich. I. p. 161 (Etym. ascos uter, et chytos, a cheo effundo, h. e. perithecium sporulas effundens). — Perithecia in partibus plerumque decoloratis foliorum vel ramulorum innata, membranacea, poro centrali pertusa, globoso-lenticularia. Sporulæ ovoideæ vel oblongæ, 1-septatæ, hyalinæ vel chlorinæ. - Nonnullæ species ab auctoribus sub Ascochytce titulo venditate, quoad fructificationem vero indescripte, utpote quæ ad Septoriæ vel Phyllostictæ formas facile pertinen. tes, hic penitus omittuntur.

I. In foliis Dicotyledonearum lignosarum.

1. Ascochyta Magnoliæ Thum. Contr. F. Litor. n. 342. — Peritheciis 2123 epiphyllis, sparsis vel subsolitariis, emersis, subhemisphæricis, epidermide tectis, parvulis, nigris in maculis parvis arescendo candicantibus, plerumque sinuosis, cito laceratis et elabentibus; sporulis numerosis, ellipsoideis, utrinque angustato-rotundatis, medio septatis sed non constrictis, rectis, hyalinis, $7-8 \approx 3$.

Hab. ad folia emortua prostrata Magnoliæ grandifloræ, Monastero prope Aquileja in Italia bor.

2. Ascochyta australis Speg. F. Arg. Pug. II. n. 122. — Maculis 2124 epiphyllis, latis, 3-10 mill. diam., orbiculari-difformibus, arescentibus, griseo-fuscis, zona aurantio-fuliginea cinctis; peritheciis minutis, 90-100 μ . diam., lenticularibus, innatis; ostiolo parvulo perforatis, sporulis ellipticis, medio 1-septatis, subconstrictis, hyalinis, $8-10 \approx 3-3 \frac{1}{2}$.

Hab. in foliis Berberidis glaucæ in horto Collegii Argentini Buenos-Aires in Argentina.

3. Ascochyta Emeri Sacc. Mich. I. p. 163. — Maculis sæpius mar- 2125 ginalibus, arescendo sordide albis, rufo-cinctis; peritheciis sparsis amphigenis, punctiformibus, lenticularibus, 110-120 μ . diam., pertusis; contextu minute parenchymatico fuligineo; sporulis oblongo-ellipsoideis, 9-15 \approx 3-4, utrinque rotundatis, 1-septatis, leniter constrictis, hyalinis.

Hab. in foliis Coronillæ Emeri in silva Montello Italiæ borealis.

4. Ascochyta Siliquastri Passer. Hedw. 1878, p. 172. — Peritheciis 2126 sparsis, exiguis, epidermidem minute pustulatim subelevantibus, membranaceis, fuscis; sporulis parvulis, oblongo-ellipticis, medio septatis, vix constrictis, hyalinis.

Hab. in leguminibus adhuc pendulis Cercidis Siliquastri, Parma in Italia.

5. Ascochyta leguminum Sacc. Mich. I. p. 530. — Peritheciis gregariis subcutaneo-erumpentibus, lenticularibus, 120-130 μ. diam., late pertusis; contextu melleo-fuligineo; sporulis oblongis, utrinque obtusis, constricto-l-septatis, 11-15 ≈ 4, perfecte hyalinis.

Hab. in leguminibus Cytisi Laburni in Gallia (Letendre, Roumeguère).

6. Ascochyta Robiniæ Sacc. et Sp. in Mich. I. pag. 163. — Maculis 2128 arescendo dealbatis, tenuiter fusco-marginatis; peritheciis sparsis punctiformibus, lenticularibus, 180 μ . diam., pertusis; sporulis oblongo-ellipsoideis, $10-15 \approx 5-6$, 1-septatis, non constrictis, hyalinis. Hab. in foliis Robiniæ Pseudacaciæ, Treviso et Gorizia

27

in Ital. bor., et in Germania. — An Ascochyta Robiniæ Lib. huc spectet, ignota fructificatione, latet.

7. Ascochyta rosicola Sacc. Mich. I. p. 164. — Maculis subcircu-2129 laribus arescendo dealbatis, rufo-marginatis, epiphyllis: peritheciis punctiformibus, lenticularibus, pertusis; sporulis oblongis v. breve fusoideis, 8-10 ≈ 3, 1-septatis, non constrictis, utrinque 1-guttulatis, hyalinis.

Hab. in pagina superiore foliorum Rosæ muscosæ, Selva in Italia boreali.

8. Ascochyta Cratægi Fuck. Enum. Fung. Nap. n. 345. — Perithe- 2130 ciis minimis, densissime dispositis, atris, conicis, in maculis fuscis angularibus sitis; sporulis...... indescriptis.

Hab. in pag. inf. foliorum Cratægi Oxyacanthæ in Rhe-

nogovia. - «An vera Ascochyta?».

9. Ascochyta piricola Sacc. Fungi Ven. Ser. II. p. 311. — Maculis 2131 albo-griseis, nitidis; peritheciis lenticulari-punctiformibus latiuscule pertusis; sporulis oblongis, 1-septatis, 2-guttulatis, dilute olivaceis, 10 = 2.

Hab. in pag. sup. foliorum Piri communis in agro Veneto.
— Spermogonium Leptosphæriæ Lucillæ.

10. Ascochyta chlorospora Speg. Sacc. Mich. I. p. 483. — Perithe- 2132 ciis subepidermicis maculis griseis, rotundis innatis, lenticularibus, minutis, 80-90, ostiolo latiusculo pertusis; sporulis ellipticis, medio 1-septato-constrictis, dilute chlorinis, 10-12 ≈ 3¹/₂.

Hab. in foliis languidis Pruni domesticæ, Belluno in Ita-

lia boreali.

- 11. Ascochyta Phitadelphi Sacc. et Sp. Mich. I. p. 165. Maculis 2133 subcircularibus, arescendo ochraceis; peritheciis punctiformibus, 200 μ. diam., quandoque subconcentrice dispositis, pertusis; sporulis constricto-didymis, utrinque rotundatis, 8-l1 ≈ 4-4½ hyalinis. Hab. in foliis Philadelphi coronarii, Conegliano in Italia boreali (Spegazzini).
- 12. Ascochyta metulispora B. et Br. Ann. N. H. n. 1730. Ma-2134 culis orbicularibus, brunneis; peritheciis minutis, pallidis; sporulis utrinque attenuatis, metuliformibus.

Hab. in foliis Fraxini in Scotia.

13. Ascochyta Orni Sacc. et Sp. Mich. I. p. 168. — Maculis nullis 2135 v. obsoletis; peritheciis amphigenis, globoso-lenticularibus, 200 μ . diam., pertusis, prominulis; sporulis ovato-fusoideis, $10-11 \approx 2-2^1/2$, 1-septatis, non v. rarius leniter constrictis, nubilose hyalinis.

Sphærioideæ, Hyalodidymæ, Aschochyta.

387

 ${\it Hab}$. in foliis Fraxini Orni, Conegliano in Italia boreali (Spegazzini).

14. Ascochyta Ligustri Sacc. et Sp. Mich. I. p. 165. — Maculis ver- 2136 siformibus, arescendo subochraceis; peritheciis lenticularibus, punctiformibus, 200 μ . diam., olivaceo-fuscis; sporulis ovoideis v. oblongo-ellipsoideis, utrinque rotundatis, interdum curvulis, 1-septatis, ad septum leniter constrictis, $8-10 \approx 2-3$, hyalinis.

Hab. in foliis Ligustri vulgaris, Costa (Vittorio) in Italia boreali (Spegazzini).

15. Ascochyta Viburni (Roum.) Sacc. Phyllosticia Viburni Roum. 2137 F. Gall. n. 2036. — Maculis vagis, demum pallentibus, fusco-purpureo-marginatis; peritheciis epiphyllis, globoso-lenticularibus, pertusis; sporulis ellipsoideo-oblongis, utrinque rotundatis, $10-12 \approx 3,5-4$, 1-septatis leniterque constrictis, hyalinis.

Hab. in foliis subvivis Viburni Opuli, Malmedy in finibus Galliæ et Germaniæ.

16. Ascochyta Lantanæ Sacc. Mich. I. p. 162. — Maculis subcircu- 2138 laribus sinuosisve arescendo dealbatis, anguste fusco-marginatis; peritheciis punctiformibus, epiphyllis sparsis, pertusis; sporulis anguste fusoideis, 11 ≈ 2, 1-septatis, non constrictis, hyalinis.

Hab. in foliis Viburni Lantanæ, Selva in Ital. bor. — Cum Septoria Viburni West. non comparanda.

17. Ascochyta Tini Sacc. Mich. I. p. 170. — Maculis vagis arescen- 2139 do ochraceis, margine subconcolori; peritheciis sparsis, paucis, punctiformibus, lenticularibus, $60-70~\mu$. diam., pertusis, contextu laxe tenui-celluloso, ferrugineo; sporulis fusoideis, $6-10 \approx 3$, 1-septatis, non v. vix constrictis, dilute olivaceis (rarissime 2-septatis).

Hab. in pag. sup. foliorum Viburni Tini, Selva, Villa Vicentina in Ital. bor. (SACC. BOLLE), Coimbra in Lusitania (Ferreira).

18. Ascochyta Sambuci Sacc. Mich. I. p. 168. — Maculis vagis are 2140 scendo candicantibus; peritheciis parcis, punctiformibus, pertusis; sporulis fusoideis, $15-18 \approx 3-3^{1}/_{2}$, 1-septatis, non constrictis, olivaceis.

Hab. in pag. sup. foliorum Sambuci nigræ, Selva in Italia boreali, et in Gallia.

19. Ascochyta sarmenticia Sacc. Mich. II. p. 110. — Maculis subro- 2141 tundo-angulosis, albicantibus, fusco-cinctis; peritheciis epiphyllis, sparsis, lenticularibus, velatis, ½ mill. diam., contextu laxe parenchymatico, ochraceo; sporulis oblongis clavulatisque, constrictodidymis, 20-25 ≈ 8, nubilosis, hyalinis.

Hab. in foliis languidis Loniceræ Caprifolii pr. Rouen in Gallia (Letendre).

20. Ascochyta tenerrima Sacc. et Roum. in Mich. II. p. 622. — Ma- 2142 culis subcircularibus olivaceis, brunneo-marginatis; peritheciis epiphyllis, lenticularibus 130 μ . diam., pertusis, contextu areolato tenerrimo; sporulis oblongis, utrinque rotundatis, medio subconstrictis obsoleteque septatis, 9-11 \approx 3-4, hyalinis.

Hab. in foliis Loniceræ tartaricæ in Arduennis (Libert).

— Asc. sarmenticia Sacc. ab hac valde differt.

21. Ascochyta Periclymeni Thum. Contr. Myc. Lus. n. 606. — Peri- 2143 theciis amphigenis, gregariis sed paucis, mediis, hemisphærico-emer sis, aterrimis, in maculis exaridis plus minusve orbiculatis, in foliorum pagina superiore ochro-griseis, sordide fusco cinctis, in pagina inferiore sordide ochraceo-fuscis; sporulis cylindrico-ellipsoideis, utrinque obtusato-acutatis, bicellularibus, ad septa subconstrictis, rectis vel minime arcuatis, hyalinis, 10-11 \(\times 3-4\).

Hab. in foliis vivis et languidis Loniceræ Periclymeni pr. Coimbra in Lusitania (Moller).

22. Ascochyta Weigeliæ Sacc. et Sp. Mich. I. pag. 170. — Maculis 2144 epiphyllis, angulosis, arescendo candicantibus; peritheciis punctiformibus, lenticularibus, $100-150~\mu$. diam., pertusis, contextu minute parenchymatico, dilute fuligineo; sporulis oblongis, $12-14 \approx 3-4$, 1-septatis, subconstrictis, minute 4-guttulatis, chlorinis.

Hab. in foliis Weigeliæroseæ, Conegliano in Italia bor. (Spegazzini).

23. Ascochyta Paliuri Sacc. Mich. I. p. 166. — Maculis variis, latis, 2145 arescendo fusco-ochraceis, vix marginatis; peritheciis epiphyllis, sparsis, punctiformibus, initio epidermide velatis, lenticularibus, 100 μ . diam., latiuscule pertusis, laxe cellulosis, fuligineis; sporulis oblongis, utrinque obtuse rotundatis, $7-9 \approx 3-3^{1}/_{2}$, 1-septatis, leniter constrictis, obsolete guttulatis, hyalinis.

Hab. in foliis Paliuri aculeati, Selva et Conegliano in Italia boreali.

- 24. Ascochyta cornicola Sacc. Mich. I. p. 169. Maculis subcir-2146 cularibus arescendo dealbatis rufo-cinctis; peritheciis punctiformibus, lenticularibus, 80 μ . diam., pertusis; sporulis oblongo-ellipsoideis, $7-10 \approx 3^{1}/_{2}-4$, 1-septatis, non constrictis, dilute olivaceis. Hab. in foliis Corni sanguineæ, Selva in Ital. bor.
- 25. Ascochyta aucubicola Winter. Cont. Myc. Lus. p. 795. Peri- 2147 theciis in macula arescendo-albida, fusco-cincta, irregulari, usque

15 μ . lata, epiphyllis, sparsis, lenticularibus, demum collabascentibus, atris, 80-90 μ . diam.; sporulis oblongis, uniseptatis, non constrictis, hyalinis, cumulatis pallide fuscescentibus, 7-9 \approx 2,5.

Hab. in foliis vivis Aucubæ japonicæ in hortis Coimbra in Lusitania.

26. Ascochyta Aucubæ Sacc. et Sp. Mich. I. p. 167. — Maculis nul-2148 lis; peritheciis gregariis subgloboso-lenticularibus, initio tectis, 250 μ . diam., prominulis, pertusis, contextu parenchymatico fuligineo; sporulis fusoideo-oblongis, $8-12 \approx 2-21/2$, 1-septatis, non v. vix constrictis, nubilose hyalinis.

Hab. in foliis dejectis Aucubæ japonicæ, Conegliano in Ital. bor. (Spegazzini). — Var. β. Brunaudiana Sacc. F. Gall. n. 2174: maculis expallentibus, linea nigra circumscriptis; peritheciis 60-70 μ . diam.; sporulis $8 \approx 2.5$, subhyalinis, 1-septatis, non constrictis. In foliis Aucubæ japonicæ, Saintes in Gallia (Brunaud).

27. Ascochyta maculans Fuck. Symb. Myc. p. 386. — Peritheciis 2149 minutis, conicis, in acervulos minutos aggregatis, atris, in macula fusca.

Hab. in foliis vivis Hederæ Helicis, Eberbach in Germania, et Treviso in Ital. bor. — Sporulæ ignotæ, hinc dubia species.

28. Ascochyta ampelina Sacc. Mich. I. p. 158. — Maculis vagis an- 2150 gulosis arescendo candicantibus, fusco-marginatis, epiphyllis; peritheciis sparsis punctiformibus lenticularibus, 70 μ . diam., pertusis; sporulis ex oblongo fusoideis, $10 \approx 3$, 1-septatis non constrictis, dilute olivaceis (rarissime, $12-15 \approx 3-3\frac{1}{2}$, 2-3-septatis).

Hab. in foliis Vitis viniferæ, Selva. — Var. β. cladogena: peritheciis majoribus, 150-200 μ . diam.; sporulis quoque paullo longioribus, 15 \approx 3. In ejusdem sarmentis vivis, Conegliano in Ital. bor. (Spegazzini).

29. Ascochyta Ellisii Thum. Pilze des Weinstockes p. 190. — Pe- 2151 ritheciis hypophyllis, dense gregariis, sine ordine dispositis, distinctis, prominulis, conico-hemisphæricis, liberis, opaco-nigris in maculis orbicularibus, numerosis, subparvis, limitatis sed non cinctis, dilute fuscis, subexaridis; sporulis globosis vel ovatis vel ellipsoideis, simplicibus (semper?) episporio crasso, levi, hyalinis, utrinque rotundatis, numerosis, 6-8 × 5-6.

Hab. in foliis vivis Vitis Labruscæ, New Jersey in Amer. septentr. (Ellis). — Si sporulæ jugiter continuæ, ad Phyllosticiam referenda species.

30. Ascochyta bombycina Penz. et Sacc. F. Agrum. Contr. II. p. 17. — 215;

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Foliicola, maculis foliorum vivorum flavescentibus insidens; peritheciis minutissimis, 60-70 μ . diam., sphæroideis, haud compressis, pariete brunneo, tenui, contextu parenchymatico; sporulis breviter cylindricis, utrinque obtusis, rotundatis, uniseptatis, medio paullum constrictis, hyalinulis, $8-9.5 \approx 3-4.5$.

Hab. in foliis languentibus Limoniæ australis, Mortola apud Ventimiglia in Italia bor.

31. Ascochyta Hesperidearum Penz. in Sacc. Mich. II. p. 445 et F. 2153 it. n. 1184. — Maculis nullis; peritheciis amphigenis, sparsis vel gregariis, subglobosis, nigris, erumpentibus, 180-200 μ. diam., apice pertusis; sporulis oblongo-fusoideis, hyalinis, 1-septatis, medio haud constrictis, 11-15 = 3-4.

Hab. in foliis languidis Limoniæ australis, Cattajo in Ital. bor. (Penzie), et in foliis Citri Limonum, Licata in Ital. merid. (Beltrani), sociis Beltrania rhombica, Volutella fusarioide et Septoria sicula.

32. Ascochyta Citri Penz. in Sacc. Mich. II. p. 445 et in F. ital. t. 2154 1183. — Maculis versiformibus candicantibus, linea atro-rufa circumscriptis; peritheciis numerosis, sparsis, punctiformibus, 150-150 μ . diam., brunneis, contextu filamentoso; sporulis ellipticis, continuis vel 1-septatis, medio non constrictis, 6,5-9 \approx 3-3,5, pallide brunneolis.

Hab. in foliis Citri Limonum Risso, Cattajo, Padova (Penzio), S. Terenzo (Gibelli) in Italia.

33. Ascochyta Lorentzii Sp. Fungi Arg. Pug. III. n. 124. — Maculis 2155 epiphyllis, orbicularibus, 2-3 mill. diam., cinereis, determinatis, zona cinereo-fuscescente, latiuscula cinctis; peritheciis centralibus, paucis, minutis, 90-100 μ. d., lenticularibus, parenchymati innatis, tenui-membranaceis, ostiolo parvulo pertusis, contextu parenchymatico, olivaceo-fuligineo; sporulis ellipticis, utrinque obtusiusculis, medio 1-septatis, non v. vix constrictis, 10-12 ≈ 4-4,5, hyalinis.

Hab. ad folia viva Cnicothamni Lorentzii in dumetis de Tucuman Argentinæ.

34. Ascochyta Paulowniæ Sacc. et Brun. F. Gall. n. 2241. — Ma- 2156 culis epiphyllis variis, fusco-cinerescentibus; peritheciis lenticularibus, pertusis, 90 μ. diam.; sporulis fusoideis, 14-18 = 3, 1-septatis, vix constrictis, 4-guttulatis, dilute olivaceis.

Hab. in foliis Paulowniæ, Saintes in Gallia, socia Phyllosticta Paulowniæ Sacc. (Brunaud).

35. Ascochyta Tweediana Penz. et Sacc. F. Mort. n. 40, tav. V. fig. 22. 2157

— Maculis subnullis; peritheciis gregariis, hypodermicis, minutis, lenticularibus, contextu tenui parenchymatico nigro, 140-150 μ . diam.; sporulis oblonge ellipticis, utrinque rotundatis, loculis sæpe inæqualibus, ad septum haud constrictis, 6,5-8 \approx 3-3,5, dilute fuligineis.

Hab. in capsulis siccis Bignoniæ Tweedianæ, Mortola apud Ventimiglia in Italia (O. Penzig).

36. Ascochyta Winteri Sacc. Ascochyta Tweediana Winter Contr. 2158 Myc. Lus. n. 796, nec Sacc. et Penz. — Peritheciis in macula exarida, pallide grisea, late fusco-purpureo cincta, rotundata seu irregulari, 4-20 mill. lat., sparsis, epiphyllis, punctiformibus, poro pertusis, membranaceis, fusco-atris, 50-60 μ. lat.; sporulis oblongis seu bacillaribus, utrinque late rotundatis, medio vix vel perparum constrictis, hyalinis, spurie uniseptatis, 5 ≈ 1,5.

Hab. in foliis vivis Bignoniæ Tweedianæ, Coimbra in Lusitania.

37. Ascochyta Puiggarii Speg. Fung. Arg. Pug. IV. n. 302. — Ma. 2159 culis latissimis, determinatis, fere totum folium occupantibus, superne candidis, inferne albo-pallescentibus; peritheciis epiphyllis, minutis, 70-80 μ. d., numerosissimis, dense sparsis, primo tectis, dein erumpentibus, subglobosis, atris, tenui-membranaceis, contextu sinuoso parenchymatico, olivaceo; sporulis ellipticis, utrinque obtuse rotundatis, medio 1-septatis, non constrictis, 7-8 = 3, dilute fusco-chlorinis.

Hab. ad folia viva Myrtaceæ cujusdam in Brasilia meridionali pr. Apiahy (Doct. J. Puiggari).

38. Ascochyta Cherimoliæ Thum. Contr. Myc. Lusit. n. 607. — Pe- 2160 ritheciis amphigenis, pertusis, primo punctiformibus, postremo lenticularibus, gregariis, mediis, fusco-atris in maculis irregularibus arescendo albicantibus vel pallidissime ochraceo-albidis, mox dilaceratis, subtus dilute ochraceis, late fusco-purpureo cinctis; sporulis longe ellipsoideis vel cylindraceis, utrinque subacutatis, rectis, medio plerumque septatis sed non constrictis, numerosissimis, hyalinis, 7 = 2-2,5.

Hab. ad folia viva Anonæ Cherimoliæ in horto botanico Coimbra in Lusitania.

39. Ascochyta Unedonis Sacc. Mich. I. p. 530. — Maculis plerum—2161 que epiphyllis variis, arescendo cinerescentibus, rufo-cinctis; peritheciis gregariis, velatis, lenticularibus, 80 μ . diam. pertusis; sporulis oblongis, 1-septatis, non constrictis, $7-9 \approx 2^1/2$, olivaceis.

Hab. in foliis Arbuti Unedonis prope Saintes in Gallia (BRUNAUD).

40. Ascochyta Elæagni Sacc. Mich. II. p. 109. — Maculis epiphyllis 2162 marginalibus, ochraceo-marginatis; peritheciis punctiformi-lenticularibus, pertusis, 80-100 μ . diam., laxe melleo-cellulosis; sporulis fusoideis, $8-10 \approx 31/2-4$, 1-septatis, dilute olivaceis.

 $\it Hab.$ in foliis Elæagni argenteæ, Saintes in Gallia (Bru-NAUD).

41. Ascochyta Oreodaphnes Sacc. Mich. II. p. 538. — Maculis am- 2163 phigenis ovato-oblongis, expallentibus, atro-cinctis; peritheciis epiphyllis, ½ mill. diam., globoso-depressis, epidermide denique fissa velatis; sporulis oblongis, apice obtusioribus, constricto-1-septatis, 2-4-guttatis, semper hyalinis, 15-16 = 7-8.

Hab. in foliis languidis Oreodaphnes fœtentis in horto botanico, Padova in Italia boreali.

42. Ascochyta Cephalanthi Ell. et Everhart, in litt. — Maculis orbi- 2164 cularibus, 3-5 mill. diam., brunneo-albescentibus, margine angusto, subelevato; peritheciis epiphyllis, paucis irregulariter distributis, depresso-hemisphæricis, parenchymate folii innatis, 60-75 μ . diam.; sporulis vel anguste ellipticis vel ovato-oblongis, pallide brunneis, uniseptatis, $7-9\approx 2.5-3$.

Hab. in foliis Cephalanthi occidentalis, Illinois in Amer. bor. (EARLE).

43. Ascochyta Calycanthi Sacc. et Sp. Mich. I. p. 162. — Maculis 2165 arescendo albicantibus, variis; peritheciis gregariis lenticularibus, punctiformibus, 200 μ . diam., pertusis, atris; sporulis oblongis v. oblongo-ellipsoideis, $11-14 \approx 2^{1}/_{2}-3$, utrinque obtusiusculis, 1-septatis, non constrictis, hyalinis v. nubilosis.

Hab. in foliis Calycanthi floridi, Conegliano in Italia boreali (Spegazzini).

44. Ascochyta Oleandri Sacc. et Sp. Mich. I. p. 162. — Maculis albis 2166 fusco-cinctis; peritheciis sparsis amphigenis, lenticularibus, 200 μ . diam., pertusis, dilute fuligineis; sporulis fusoideo-oblongis, 11- $15 \approx 2-2^{1}/_{2}$, 1-septatis, non v. vix constrictis nubilosis, hyalinis.

Hab. in foliis Nerii Oleandri, Conegliano in Italia boreali (Spegazzini), Coimbra in Lusitania (Moller).

45. Ascochyta Garryæ Sacc. Mich. II. p. 108. — Maculis epiphyllis va- 2167 riis, atro-cinctis; peritheciis paucis lenticularibus, $100-120~\mu$. diam.; sporulis fusoideis, $8-10 \approx 3$, chlorinis, constricto-1-septatis.

Hab. in foliis Garryæ ellipticæ, Saintes in Gallia (Brunaud).

46. Ascochyta ulmella Sacc. Mich. I. p. 169. — Maculis hypophyllis 2168 arescendo expallentibus, margine concolori; peritheciis sparsis, paucis, punctiformibus, lenticularibus, pertusis; sporulis breve fusoideis, rectis, $8-10 \approx 3$, I-septatis, non v. vix constrictis, dilute olivaceis.

Hab. in foliis Ulmi campestris, Selva in Italia boreali.

47. Ascochyta buxina Sacc. Mich. I. p. 169. — Maculis indetermina- 2169 tis arescendo expallentibus; peritheciis sparsis, punctiformibus; sporulis ovato-fusoideis $8 \approx 2^{1}/_{2}$, 1-septatis, non constrictis, dilute olivaceis.

Hab. in foliis Buxi sempervirentis, Selva in Ital. bor.

48. Ascochyta limbalis Sacc. Mich. I. p. 161. — Maculis vagis, sæpe 2170 marginalibus, arescendo candidis, zona nigrescente cinctis; peritheciis lenticularibus, pertusis; sporulis oblongo-cylindraceis, $15 \approx 2$, utrinque obtusiusculis, 1-septatis, vix constrictis, 4-guttulatis, hya-

Hab. in pag. super. foliorum Buxisempervirentis, Selva in Ital. bor., Coimbra in Lusitania. — Huc Depazea buxicola Sacc. Myc. Ven. p. 193. non Friesii, quæ Phyllosticia limbalis Pers.

49. Ascochyta carpinea Sacc. Mich. I. p. 170. — Maculis subcircu- 2171 laribus sinuosisve, arescendo ochraceis, margine subconcolori; peritheciis sparsis, raris, punctiformibus, lenticularibus, 100 μ . diam., pertusis; sporulis oblongo-fusoideis, $10-11 \approx 2^{1}/_{2}$, 1-septatis, non constrictis, dilute olivaceis.

Hab. in pag. sup. foliorum Carpini Betuli, Covolo in Italia boreali.

50. Ascochyta Coryli Sacc; et Sp. Mich. I. p. 162. - Maculis variis 2172 v. subcircularibus, arescendo albicantibus; peritheciis lenticularibus, 200 u. diam., pertusis, fuscis; sporulis oblongo-ellipsoideis v. subcylindraceis, $10 \approx 2^{1}/_{2}$, 1-septatis, non constrictis, rectis curvulisve, hyalinis.

Hab. in foliis Coryli Avellanæ, Costa pr. Vittorio in Italia boreali (Spegazzini).

51. Ascochyta Quercus Sacc. et Sp. in Mich. I. p. 162. — Maculis 2173 versiformibus arescendo albicantibus; peritheciis sublenticularibus, punctiformibus, 80-90 μ . diam.; sporulis oblongo-ellipsoideis, 7- $12 \approx 3-4^{1}/_{2}$, utrinque obtusis, 1-septatis, ad septum plus minusve constrictis, hyalinis.

Hab. in foliis quercinis, Susegana in Ital. bor. (Specazzini). 52. Ascochyta Quercuum (Cooke) Sacc. Sphærellopsis quercuum 2174 Cooke in Grev. XII, p. 23. — Hypophylla, sparsa; peritheciis subglobosis, subsuperficialibus, minimis, 150 μ . diam., fuscis; sporulis lanceolatis, uniseptatis, hyalinis $16 \approx 4$.

Hab. in foliis Quercus virentis, Darien in Georgia.

53. Ascochyta? Caricæ Rabenh. in Bot. Zeit. 1851, p. 455. — Ma-2175 culis rufo-brunneis; peritheciis innatis, gelatina aureo-coccinea; sporulis clavato-polymorphis granulis et guttulis oleosis rotundis farctis.

Hab. in foliis Fici Caricæ, Pola in Istria (BIASOLETTO).

- 54. Ascochyta populina Sacc. Mich. I. p. 168. Maculis variis, an-2176 gulosis, arescendo candidis, atro-cinctis; peritheciis punctiformibus, sparsis; sporulis cylindraceo-fusoideis, $10-11 \approx 1^{1}/_{2}-2$, rectis, 1-septatis, non v. vix constrictis, e hyalino olivaceis.
- Hab. in pag. sup. foliorum Populi nigræ, Selva in Ital. bor. 55. Ascochyta Tremulæ Thüm. Fungi Austr. n. 82. Peritheciis 2177 hypophyllis, subdensis, minutissimis, punctiformibus, nigris, globosis, semiimmersis in maculis plus minusve orbiculatis, exarido-griseis, parvis, anguste et distincte fusco-cinctis, in pagina superiore albo-griseis; sporulis cylindricis vel longe ellipsoideis, utrinque subrotundatis, medio uniseptatis sed non constrictis, achrois, 9-10 = 3.

Hab. in foliis vivis Populi Tremulæ, Krems in Austr. inf. (DE THUMEN).

56. Ascochyta Martianoffiana Thum. Pilzfl. Sibir. n. 616. — Perithe- 2178 ciis magnis, subsolitariis, emersis, conoideis, aterrimis, epiphyllis in maculis plus minusve orbicularibus, ochraceo-griseis, late fusco-marginatis, subtus fusco-griseis; sporulis bicellularibus, inæquali-ovoideis vel fere subreniformibus, cellula una semper majore quam altera, utrinque subacutatis, pallidissime fuligineo-cinereis, 10 ≈ 4.

Hab. in foliis vivis Salicis pyrolæfoliæ, Samodourowka in Sibiria.

II. In ramulis Dicotyledonearum lignosarum.

57. Ascochyta ventricosa Penz. et Sacc. Funghi Mort. n. 41. — Pe-2179 ritheciis laxe gregariis, minutis, innato-erumpentibus, sphæroideo-lenticularibus, depressis, contextu tenui membranaceo, brunneo, 130-140 μ. diam.; sporulis breviter ellipticis vel ovoideis, ventricosis, septo medio valde manifesto, ad septum haud constrictis, utrinque rotundatis, dilute brunneis, 7-9 ≈ 4,5-6.

Hab. in ramulis siccis Acaciæ sp. (socià Diplodia Acaciæ



Sphærioideæ, Hyalodidymæ, Ascochyta.

395

Penz. et Sacc.) et Passifloræ hybridæ, Mortola in Ital. bor. (O. Penzie).

58. Ascochyta Laburni Sacc. Mich. I. 530. — Peritheciis gregariis, 2180 epidermide velatis, 120 μ . diam., subglobosis, pertusis contextu fuligineo; sporulis cylindraceis, utrinque rotundatis, $10-12 \approx 2$, 1-septatis, non constrictis, viridulis.

Hab. in ramulis Cytisi Laburni, Rouen in Gallia (Le-

59. Ascochyta densiuscula Sacc. et Malbr. Sacc. Mich. II. p. 621. — 2181 Peritheciis dense gregariis, subcutaneis, punctiformibus, nigris; sporulis anguste oblongis, utrinque obtusiusculis, medio septatis leniterque constrictis, 9-12 ≈ 3.5, hyalinis.

Hab. in ramulis Sarothamni scoparii, Rouen in Gallia (Malbranche).

60. Ascochyta berberidina Sacc. Mich. I. p. 530. — Peritheciis spar- 2182 sis, epidermide velatis, 100 μ . diam., lentiformibus, pertusis; sporulis fusoideis, 1-septatis, non constrictis, $8-11 \approx 2^{1}/_{2}$, luteolis.

Hab. in ramulis Berberidis vulgaris, Rouen in Gallia (LETENDRE).

61. Ascochyta rufo-maculans Berk. Outl. p. 320. — Maculis orbicularibus rufo-brunneis; peritheciis emersis, subliberis concoloribus; sporulis oblongis, continuis («semper?»), medio constrictis, 15-20 μ. longis.

Hab. in racemis Vitis viniferæ in Britannia.

62. Ascochyta Tecomæ Sacc. Mich. I. p. 168. — Maculis indetermi- 2184 natis candicantibus, cladogenis; peritheciis gregariis punctiformibus globoso-lenticularibus, 90-100 μ . diam., pertusis, initio epidermide velatis, dein erumpentibus; sporulis breve fusoideis, $8-10 \approx 2^{1}/_{2}-3$, rectis curvulisve, 1-septatis, non constrictis dilute olivaceis.

Hab. in ramulis nondum emortuis Tecomæ radicantis, Conegliano in Italia boreali (Spegazzini).

63. Ascochyta scandens Sacc. Mich. I. p. 530. — Peritheciis dense 2185 gregariis, globoso-lenticularibus, subcutaneo-erumpentibus, 70-80 μ. diam., pertusis, contextu parenchymatico circa ostiolum multo densiore; sporulis fusoideis, 10 = 4, 1-septatis, non constrictis, chlorino-hyalinis.

Hab. in sarmentis Hederæ Helicis, Saintes in Gallia (Bru-NAUD).

64. Ascochyta carthagenensis Sacc. Mich. Il. p. 144. — Maculis cla- 2186 dogenis vagis, albescentibus; peritheciis gregariis, lenticularibus,

Sphærioideæ, Hyalodidymæ, Ascocnyta.

initio velatis, 1/10 mill. diam., pertusis; sporulis oblongis, utrinque obtusiusculis, $7-9 \approx 3-3^{1}/_{2}$, constricto-1-septatis, chlorinis.

Hab. in ramulis Manioth carthagenensis in Carolina (RAVENEL).

III. In Dicotyledoneis herbaceis.

65. Ascochyta patagonica Sp. F. Arg. Pug. II. n. 123. — Peritheciis 2187 sparsis, subepidermicis, prominulis, minutis, 80-90 \u03bc. d., lentículari-hemisphæricis, ostiolo parvulo impresso pertusis, membranaceis; contextu parenchymatico, atro-fuligineo; sporulis cylindraceo-ellipticis, primo granuloso-farctis, continuis, dein 1-septatis, non v. vix constrictis, loculis non v. uniguttulatis, hyalinis, 8-10 = 3-4.

Hab. in petiolis putrescentibus Anemonis sphænophyllæ,

prope el Rio Negro in Patagonia.

66. Ascochyta clematidina Thum. Pilzfl. Sibir. n. 619. — Peritheciis 2188 epiphyllis, submagnis, emersis, dense gregariis, hemisphæricis, basi epidermide late cinctis, nigris in maculis nullis v. obsoletis, ochraceis, irregularibus, subzonatis, vix arescentibus; sporulis late fusoideis vel subellipsoideis, utrinque obtusatis, medio septatis, dilute fuligineo-griseis, $16-18 \approx 6-7$.

Hab. in foliis vivis Clematidis glauce, Minussinsk in Sibiria.

67. Ascochyta Hellehori Sacc. F. Ven. Ser. II. sub n. 28 pag. 310, 2189 Mich. I. p. 169. — Maculis epiphyllis mediocribus, angulosis, albicantibus, atro-limbatis; peritheciis sparsis, punctiformi-lenticularibus, poro latiusculo apertis; sporulis breve fusoideis, $8 \approx 1^3/_4-2$, 1-septatis, viridulis.

Hab. in foliis languidis Hellebori viridis in Italia boreali,

socio statu ascophoro: Leptosphæria Lathonia.

68. Ascochyta Trollii Thüm. Pilzfl. Sibir. n. 618. — Peritheciis epi- 2190 phyllis, sparsis, minutissimis, semiimmersis, punctiformi-conicis, nigris in maculis irregularibus, arescendo albicantibus, amphigenis, fusco-nigro marginatis; sporulis ellipsoideis, utrinque obtusiusculis, uniseptatis, 16 = 7, hyalinis, episporio subcrasso.

Hab. in foliis vivis Trollii asiatici in subalpinis pr. flu-

vium Baraksan in Sibiria.

69. Ascochyta Aquilegiæ (Roum. et Pat.) Sacc. Phyllosticia Aquile- 2191 giav Roum, et Pat. Rev. Myc. V. p. 28. — Maculis epiphyllis, cinereis, rotundatis vel ovalibus, 0,5-1 g. diam., brunneo-cinctis marginolibus; peritheciis numerosis, centralibus, ovoidalibus, brunneis, centro pertusis et depressis; sporulis brunneis, bilocularibus, loculis inæqualibus, subinde curvatis.

Hab. in foliis Aquilegiæ vulgaris, Malmedy in Arduennis.

70. Ascochyta Nymphææ Passer. Hedw. 1877, p. 120. — Perithe- 2192 ciis in maculis exaridis luteo-marginatis, immersis, vix pustulatim prominulis; sporulis oblongo-ellipticis, simplicibus, hyalinis.

Hab. in foliis Nymphææ albæ, Parma et Aquileja in Italia, et Nymphææ capensis, Coimbra in Lusitania. — Si sporulæ

jugiter continue, ad Phyllostictam species referenda est.

71. Ascochyta Violæ Sacc. et Sp. Sacc. Mich. I. p. 163. — Maculis 2193 arescendo dealbatis, variis; peritheciis gregariis, globoso-lenticularibus, 180-200 μ. diam., pertusis, contextu parenchymatico, circa ostiolum condensato, fuligineo; sporulis breve fusoideis, 15-18 ≈ 31/2,-4, 1-septatis, non constrictis hyalinis.

Hab. in foliis Violæ odoratæ, Selva et Conegliano in Ita-

lia boreali.

72. Ascochyta Armoraciæ Fuck. Symb. myc. p. 388, Septoria Armo-2194 raciæ Oud. Aanwinsten fl. myc. v. Nederland. p. 5 (1875-76). — Peritheciis conicis, atris, in macula pallescente sparsis; sporulis oblongis, obtusis, 1-septatis.

Hab. in foliis Armoraciæ rusticanæ in Rhenogovia, Ita-

lia bor., Britannia et Hollandia.

73. Ascochyta Brassicæ Thum. Contr. Myc. Lusit. n. 602. — Peri- 2105 theciis densissime gregariis, epiphyllis, conicis, prominulis, mediis, fusco-atris in maculis sinuosis, non marginatis, sordide ochraceogriseis; sporulis fusiformibus, rectis, utrinque acutatis, medio uniseptatis, bi-quadri grosse nucleatis, achrois, 15-16 = 3-4.

Hab. in foliis vivis Brassicæ oleraceæ in Lusitania (Mor-

LER).

74. Ascochyta pisicola (Berk.) Sacc. Depazea pisicola Berk. in Curzy on the fructif. of simple Sphæriæ p. 334. — Peritheciis minutis, nigris in maculis rotundis pallidis, marginatis, sæpe confluentibus; sporulis hyalinis, ellipticis, 1-septatis vel continuis, 10-13 p. longis.

Hab. in fructibus (?) Pisi in Britannia. — «An diversa ab Asc. Pisi Lib.?»

75. Ascochyta Pisi Lib. Exs. n. 12. Sphæria (Depazea) concava 2197 Berk. Ann. N. H. n. 194, t. XI. f. 3, Zythia rabiei Pass., Septoria leguminis β. Pisi Kickx, Ascospora Pisi Fuck. — Maculis subrotundis, luteis, brunneo-marginatis; peritheciis centralibus

brunneis, ostiolo rotundo pertusis, contextu perithecji e cellulis angulosis 5-7 μ . diam.; cirris brevibus crassis, demum confluentibus, fusco-rubellis, demum expallescentibus; sporulis oblongis, uni-septatis, medio constrictis, $14-16 \approx 4-6$, nucleolatis, hyalinis.

Hab. in foliis caulibusque leguminum Phaseoli, Pisi, Ciceris in Belgio, Britannia, Italia, Lusitania et Germania.

76. Ascochyta Phaseolorum Sacc. Mich. I. p. 164. — Maculis inde-2198 terminatis, arescendo ochraceis; peritheciis epiphyllis globoso-lenticularibus, 100 μ . diam., pertusis; sporulis oblongis constricto-1-septatis, $10 \approx 3$, 2-guttulatis, hyalinis.

Hab. in foliis Phaseoli vulgaris, Selva in Ital. bor.

77. Ascochyta Orobi Sacc. Mich. I. pag. 161. — Maculis arescendo 2199 dealbatis, sinuosis, fusco-cinctis; peritheciis punctiformibus, lenticularibus, 100 μ . diam., late pertusis; sporulis constricto-bilocularibus, oblongis, utrinque obtusis, $15-16 \approx 4^{1}/_{2}-6$, guttulatis, hyalinis.

Hab. in foliis Orobi verni et lathyroidis in silva Montello Ital. bor. et prope Minussinsk in Sibiria. — Huc spectat Septoria Orobi Pass. in Rabh. F. E. n. 2256 (Aprili 1877).

78. Ascochyta Vulnerariæ Fuck. Symb. myc. p. 387. — Peritheciis 2200 hemisphæricis, aterrimis, in macula purpurascenti.

Hab. in foliis radicalibus adhuc vivis Anthyllidis Vulnerariæ in Rhenogovia et Lusitania. — «An vera Ascochyta?»

79. Ascochyta Saponariæ Fuck. Symb. myc. p. 388. — Peritheciis 2201 numerosissimis, in macula fusca, minutis, subconicis, atris.

Hab. in pagina sup. foliorum viventium Saponariæ officinalis, quam interdum omnino occupat, in Rhenogovia. — «An hujus loci?»

80. Ascochyta Rhynchosiæ (Thum.) Sacc. Depazea Rhynchosiæ Thum. 2202 Fung. Am. trig. Sp. n. 20 et M. U. n. 596. — Peritheciis minimis, sparsis, epiphyllis, immersis, globosis, atris in maculis brunneo-fuscis, obscure marginatis, irregularibus; sporulis minimis, fusiformibus, uniseptatis, utrinque acutatis, hyalinis, 9 ≈ 3.

Hab. in foliis vivis Rhyrchosiæ reniformis, Aiken in Carolina australi.

81. Ascochyta Dianthi (A. S.) Berk. Outl. p. 320, Sphæria (Depa-2203 zea) Dianthi Alb. et Schw. Lus. t. VI. f. 2. — Peritheciis irregularibus, conglomeratis; sporulis spathulatis, medio septatis, granulosis.

Hab. in foliis vivis Dianthi in Britannia et Germania.

82. Ascochyta Potentillarum Sacc. Mich. I. p. 170. — Maculis versi- 2204

formibus epiphyllis arescendo candicantibus, atro-sanguineo-marginatis; peritheciis punctiformibus, lenticularibus; sporulis fusoi-deo-cylindraceis, utrinque obtusiusculis, $10 \approx 3$, 1-septatis, non constrictis, chlorinis.

Hab. in foliis Potentillæ reptantis, Selva in Ital. bor.

83. Ascochyta Fragariæ Sacc. Mich. I. p. 169. — Maculis arescendo 2205 dealbatis, atro-sanguineo-marginatis, subcircularibus; peritheciis e globoso lenticularibus 100 μ. diam., latiuscule pertusis; contextu tenui parenchymatico subochraceo, circa porum conspicue incrassato; sporulis oblongo-fusoideis, rectis, 12-15 ≈ 3-4, 1-septatis, non constrictis, dilute olivaceis.

Hab. in pag. sup. foliorum Fragariæ vescæ et chiloënsis, Selva in Italia boreali et Coimbra in Lusitania. — Affinis Ascochytæ ampelinæ Sacc.

84. Ascochyta Pallor Berk. Outl. p. 320 et Ann. N. H. n. 193, t. XI. 2206 f. 2. — Maculis pallidis, subrotundis; peritheciis sparsis, immersis, pallidis, epidermide ostiolis minutis perforata et circum ostiola leniter elevata et atrata; sporulis allantoideis, leniter curvatis, utrinque obtusis, hyalinis.

Hab. in ramulis vivis Rubi Idæi in Britannia. — «Si sporulæ jugiter continuæ, species ad Phyllostictam ducenda erit.»

85. Ascochyta Feuilleauboisiana Sacc. et Roum. Reliq. Lib. Ser. IV. 2207 n. 122. — Maculis arescendo albicantibus anguste atro-cinctis; peritheciis globoso-lenticularibus, perexiguis; sporulis oblongo-fusoideis, obtusiusculis, 1-septatis, 18-20 ≈ 2,5, hyalinis, lenissime medio constrictis.

Hab. in foliis Ruborum epiphylla in Arduennis (LIBERT).

86. Ascochyta althæina Sacc. et Bizz. Fung. Gall. n. 2240. — Maculis 2208 sordide brunneis, sæpe flavo-marginatis, subcircularibus; peritheciis innatis, punctiformibus; sporulis oblongis, utrinque rotundatis, 1-septatis, constrictulis, hyalinis, 7-10 = 3,5-4.

Hab. in foliis languidis Althææ officinalis, Rouen in Gallia (Letendre).

87. Ascochyta obducens Fuck. Symb. myc. p. 388. — Peritheciis 2209 conicis, minimis, atris, numerosissimis, in maculis exaridis demum foliorum paginam inferiorem totam obducentibus.

Hab. in foliis vivis v. languidis Spirææ Ulmariæ in Germania et Sibiria.

88. Ascochyta malvicola Sacc. Mich. I. p. 161. — Maculis subcircu- 2210 laribus sinuosisve arescendo dealbatis, vix marginatis; peritheciis

sparsis punctiformibus lenticularibus, pertusis; sporulis breve cylindraceis, utrinque rotundatis, $20 \approx 4$, 1-septatis, leniter constrictis, minute 4-guttulatis, hyalinis.

Hab. in foliis Malvæ silvestris, Selva in Ital. bor.

89. Ascochyta Passifloræ Penz. et Sacc. F. Mortol. n. 39. tav. V. 2211 fig. 23. — Peritheciis sparsis, hypodermicis, ostiolo solo prominente, majusculis, 300-330 a. diam., sphæroideis, valde depressis, contextu filamentoso, tenui, brunneo; sporulis oblongo-ellipticis, acutiusculis, medio septatis, ad medium haud constrictis, loculis sæpius inæqualibus, 8-12 = 4-5, dilute brunneis.

Hab. in pedunculis exsiccatis Passifloræ hybridæ, Morto-

la in Ital. bor. (O. Penzig).

90. Ascochyta? Astrantiæ Roum. in Fung. Gall. n. 33. — Perithecia detegere non potui; maculæ vero ad *Pseudopezizam Astrantiæ* Schröt. (*Phacidium Astrantiæ* Ces.?) pertinere viderentur, sed ascomata desunt.

Hab. in foliis Astrantiæ majoris, Mont Louis in Gallia.

91. Ascochyta phomoides Sacc. Mich. I. p. 530. — Peritheciis sparsis, subcutaneis, dein erumpentibus, globulosis, pertusis, 100-110 μ . diam.; sporulis oblongo-didymis, $7-9 \approx 4$, leniter constrictis, hyalinis.

Hab. in caule Eryngii, Rouen in Gallia (LETENDRE).

92. Ascochyta anethicola Sacc. Mich. II. p. 621. — Peritheciis gregariis innato-erumpentibus, prominulis, exiguis, ½ mill. diam.; sporulis cylindraceo-oblongis, utrinque obtusiusculis, 8-10 \(\times 3,5-4\), initio continuis, dein 1-septatis, hyalinis.

Hab. in foliolis languidis Anethi prope Rouen in Gallia (MAL-

BRANCHE).

93. Ascochyta Bupleuri Thüm. Contr. Myc. Lus. n. 603. Depazea Bu-2215 pleuri Fuck. Symb. myc. p. 382? — Peritheciis conicis, atris, numerosis, in macula exarida, grisea.

Hab. in foliis vivis Bupleuri subovati Link. (Bupleuri rotundifolii Brot.) St. Clara pr. Coimbra in Lusitania, et Bupleuri falcati in Germania.

94. Ascochyta Scabiosæ Rabenh. in Kl. Hb. myc. 1253. — Cirris 2216 incarnatis hyalinis.

Hab. in foliis vivis Knautiæ arvensis in Germania.

95. Ascochyta Senecionis Fuck. Symb. myc. p. 386. — Peritheciis 2217 minutis, globosis, atris, sine macula, in acervulos sparsos minutos aggregatis.

Hab. in pagina infer. foliorum languidorum Senecionis saracenici, Hattenheim in Germania.

96. Ascochyta Schelliana Thum. in N. Giorn. Bot. ital. — Perithe- 2218 ciis numerosis, gregariis, amphigenis vel caulicolis, conico-globosis, magnis, emersis, aterrimis in maculis exaridis, primo ochraceogriseis, demum albido-griseolis; sporulis cylindraceis, utrinque rotundatis, magnis, medio plerumque leniter angustatis vel calceiformibus, continuis vel medio obscure septatis, achrois, 25-33 ≈ 7-8.5.

Hab. in foliis et caulibus subvivis Centaureæ glastifoliæ, Sierkly (Ufa) in Sibiria.

97. Ascochyta fibricola Sacc. Mich. I. p. 109. — Maculis subnullis; 2219 peritheciis lenticulari-punctiformibus, 140-150 p. diam., inter fibras corticales nidulantibus; sporulis cylindraceis, curvulis, 8-10 ≈ 3 , utrinque obtusiusculis, 1-septatis, vix constrictis, fusco-olivaceis.

Hab. in caulibus putrescentibus Cinerariæ maritimæ, Rouen in Gallia (Letendre). — Affinis Diplodiellæ fibricolæ Berk., quæ peritheciis oblongis, sporulis brevioribus etc. differt.

98. Ascochyta Chloræ Sacc. et Sp. Mich. I. p. 163. — Maculis va- 2220 riis, arescendo expallentibus; peritheciis sparsis, globoso-lenticularibus, 100-200 p. diam., subastomis; contextu laxe parenchymatico, dilute fuligineo; sporulis oblongo-fusoideis, 10-18 \(\times 2-3\), 1- septatis, leniter constrictis, utrinque acutiusculis, hyalinis.

Hab. in foliis Chloræ perfoliatæ, Conegliano in Italia bor.

(Spegazzini).

99. Ascochyta physalina Sacc. Mich. I. p. 93. — Maculis arescen- 2221 do ochraceis, vagis; peritheciis immerso-prominulis, epiphyllis, 100 p. diam., pertusis; sporulis cylindraceo-oblongis, constricto-1-septatis, 25-28 \times 8, 2-4-guttulatis, hyalinis.

Hab. in foliis languidis Physalidis Alkekengi in silva Montello Ital. bor.

100. Ascochyta Petuniæ Speg. Nov. Add. n. 156, et Sacc. Mich. II. 2222 p. 278. — Maculis fuligineis, circularibus, dein angulosis, concentrice saturatius et ruguloso-zonatis; peritheciis ratione majusculis 100-130, intense coloratis; sporulis cylindraceo-ellipticis, medio 1-septatis, non vel vix constrictis, hyalinis 5-8 \u22222.

Hab. in foliis Petuniæ in hortis Belluno Ital. bor.

101. Ascochyta Nicotianæ Pass. Crittog. del Tabacco n. 2. — Perithe- 2223 ciis in maculis exaridis, irregularibus subaggregatis, fuscis; sporu-

26

lis ovoideo-oblongis, medio septatis et leniter constrictis, hyalinis, endoplasmate granuloso.

Hab. in foliis languidis, primo pallide variegatis Nicotianæ Tabaci, Parma in Italia.

102. Ascochyta Daturæ Sacc. Mich. I. p. 163. — Maculis subcircu- 2224 laribus, sinuosis, arescendo albicantibus, margine lato ochraceo cinctis; peritheciis gregariis epiphyllis, quandoque subconcentricis. e globoso lenticularibus, innato-prominulis 100 μ. diam.; sporulis cylindraceo-oblongis, utrinque rotundatis, 7-8 = 3, 1-septatis, vix constrictis, hyalinis.

Hab. in foliis Daturæ Stramonii, Selva in Ital. bor., et in foliis vivis Daturæ arboreæ, Coimbra in Lusitania.

103. Ascochyta Calystegiæ Sacc. Mich. I. p. 165. — Maculis vagis 2225 irregularibus, arescendo brunneis, concentrice subzonatis, margine saturatiori; peritheciis sparsis epiphyllis punctiformibus, lenticularibus, 90-100 \u03c4. diam., pertusis, laxe cellulosis; sporulis oblongis v. subclavatis, 7-8 = 3, utrinque obtusiusculis, 1-septatis, non v. vix constrictis, hyalinis.

Hab. in foliis Calystegiæ sepium, Selva in Ital. bor.

104. Ascochyta carpogena Sacc. in Mich. II. p. 109. — Maculis obso- 2226 letis; peritheciis sparsis, lenticulari-punctiformibus, 150 \(\mu \). diam., pertusis, contextu melleo; sporulis oblongis clavulatisve, $10 \approx 4-6$, constricto-l-septatis, utrinque rotundatis, dilute chlorinis, nubilosis.

Hab. in capsulis emortuis Pharbitis hispidæ in Gallia (MALBRANCHE).

105. Ascochyta verbascina Thüm. Contr. Fung. Litor. n. 343. — 2227 Peritheciis epiphyllis, conico-hemisphæricis, semiimmersis, sparsis, nigris, parvulis, in maculis irregularibus, arescendo albidis, postremo elabentibus, latissime sordide violaceo-ochraceo-cinctis; sporulis cylindrico-ellipticis, utrinque angustato subrotundatis, rectis vel minime curvulis, uniseptatis, hyalinis, $6 \approx 2.5-3$.

Hab. in foliis vivis Verbasci sinuati, Pola in Ital. bor. — Ab Ascochyta Verbasci Sacc. et Speg. characteribus notatis valde differt.

106. Ascochyta Verhasci Sacc. et Sp. Mich. I. p. 166. — Maculis 2228 arescendo sordide ochraceis, vagis, margine concolore; peritheciis sæpius epiphyllis, lenticularibus, 150-200 µ. diam., pertusis, cellulis dilute fuligineis sinuosis contextis; sporulis ovato-oblongis, 15-18 ≈ 5-5,5, constricto-1-septatis, rectis v. leniter curvulis, 4guttulatis, hyalinis.

Hab. in foliis Verbasei phlomoidis, Conegliano in Italia bor. (Spegazzini).

107. Ascochyta Digitalis Fuck. Symb. myc. pag. 388. — Peritheciis 2229 minutis, atris, in macula purpurascenti nidulantibus; sporulis nondum visis (a hinc dubia species n).

Hab. in foliis vivis Digitalis purpureæ in Germania et Lusitania.

108. Ascochyta Molleriana Winter Cont. Myc. Lus. n. 796. — Ma-2280 culis rotundatis seu irregularibus, arescendo griseis, late fusco-purpureo-cinctis, usque 12 mill. lat.; peritheciis sparsis epiphyllis, membranaceis, hemisphæricis, pertusis, pallidis, 120-140 μ. lat.; sporulis oblongis, sæpe medio parum angustatis, utrinque rotundatis, hyalinis, demum uniseptatis, sed non constrictis, 9,5-12 ≈ 3,5.

Hab. in foliis vivis Digitalis purpureæ, Leonte (Serra de Gerez) in Lusitania.

109. Ascochyta Lamiorum Sacc. Mich. I. p. 170. — Maculis versi-2231 formibus amphigenis, arescendo dilute ochraceis, margine paullo saturatiore; peritheciis punctiformibus, lenticularibus, $50-70~\mu$. diam., pertusis; sporulis bacillari-fusoideis utrinque acutiusculis, $9-11 \approx 2-2^3/4$, 1-septatis, non constrictis, e hyalino chlorinis.

Hab. in foliis Lamii albi, Selva in Italia bor.

110. Ascochyta Hyperici Lasch. in Bot. Zeit. 1848, p. 294. — Ma-2232 culis fulvis; cirris albis.

Hab. in foliis Hyperici perforati, Driesen, Rheingau in Germania, et Treviso in Ital. bor. — Sporulæ non visæ, verisimiliter tamen species eadem ac Septoria Hyperici Desm.

111. Ascochyta Elaterii Sacc. Mich. I. p. 166. — Maculis vagis, are-2233 scendo pallide argillaceis, fusco-cinctis; peritheciis gregariis velatis, sublenticularibus, $100-110~\mu$. diam. late pertusis, initio (imperfectis) fulventibus, dein nigricantibus; sporulis cylindraceo-oblongis, $20-22 \approx 4$, utrinque rotundatis, rectis curvulisve, 1-septatis, non v. vix constrictis, hyalinis.

Hab. in foliis Momordicæ Elaterii in horto botanico patavino in Ital. bor.

112. Ascochyta Plantaginis Sacc. et Speg. Mich. I. p. 166. — Ma-2234 culis variis arescendo brunneis; peritheciis gregariis, lenticulariumbilicatis, $100-150~\mu$. diam., latiuscule pertusis, laxe cellulosocontextis, olivaceo-fuligineis; sporulis oblongis v. subellipsoideis, $7-12 \approx 2^1/_2-3$, utrinque obtusis, sæpe curvulis, l-septatis, non constrictis, 2-guttulatis, hyalinis.

Hab. in foliis Plantaginis majoris, Treviso in Ital. bor. (Specazzini).

113. Ascochyta volubilis Sacc. et Malbr. Mich. II. p. 621. — Peri-2235 theciis gregariis, globoso-lenticularibus, nigricantibus, punctiformibus, epidermide initio velatis; sporulis oblongo-ellipsoideis, utrinque rotundatis, initio continuis, dein medio septatis, 8-10 \times 3-4, hyalinis.

Hab. in caule Polygoni Convolvuli, Rouen in Gallia (MALBRANCHE).

114. Ascochyta vicina Sacc. Mich. II. p. 109. — Maculis obsoletis; 2236 peritheciis gregariis hemisphærico-punctiformibus, 110-120 μ . d., pertusis, contextu melleo; sporulis anguste fusoideis, 8-10 \approx 2-21/4, utrinque acutis, olivaceis, 1-septatis.

Hab. in caule Rumicis, Rouen in Gallia (Letendre), et Salviæ officinalis, Padova (Βιzzozero). — V. β. evonymella Sacc. Peritheciis paullo majoribus, ceteris iisdem. In capsulis Evonymi europæi, Rouen in Gallia (Letendre).

115. Ascochyta Aristolochiæ Sacc. Mich. I. p. 165. — Maculis amphigenis, subcircularibus, arescendo denigratis, margine saturatiori; peritheciis sparsis, remotis, punctiformibus, 60-70 μ . diam., lenticularibus, pertusis, contextu tenui-parenchymatico, luteo-fusco; sporulis ellipsoideo-oblongis, $7-9 \approx 3-3\frac{1}{2}$, utrinque rotundatis, rectis curvulisve, 1-septatis, vix constrictis, hyalinis.

Hab. in foliis Aristolochiæ Clematitis, Selva pr. Treviso in Ital. bor.

116. Ascochyta Araujæ Speg. Fungi Argent. Pug. IV. n. 301. — Ma- 2238 culis latiusculis, 3-5 mill. diam., subindeterminatis, centro candidis, peripherice fulvo-fuscescentibus, areola purpurascenti cinctis; peritheciis periphericis epiphyllis minutis, 75-95 μ. d., innato-pro.ninulis, atris membranaceis; contextu olivaceo-fusco; sporulis ellipticis v. elliptico-cylindraceis, utrinque obtusis, 8-15 ± 4-5 medio, 1-septatis, non constrictis, sed quandoque attenuatis, chlorinulis.

Hab. in foliis languidis Araujæ albentis in sepibus, Boca del Riachuelo in Argentina.

117. Ascochyta folliculorum Penz. et Sacc. Fung. Mortol. n. 38. tav. 2239. V. fig. 21. — Peritheciis minutissimis, sparsis vel laxe congregatis, depressis, tenuibus, 67-80 μ. diam.; sporulis breviter cylindraceis, utrinque rotundatis, medio paullulum constrictis, uniseptatis, dilute fuligineis, 6-7 ≈ 3-3,5.

Hab. in folliculis vetustis Stapeliæ sp., Mortola in Italia boreali (O. Penzig).

118. Ascochyta Jenissensis Sacc. Mich. II. p. 144. — Maculis epi- 2240 phyllis subcircularibus, expallentibus, fusco-marginatis; peritheciis epiphyllis, lenticularibus, pertusis, 1/10 mill. diam., contextu parenchymatico, pallide fusco; sporulis oblongis, utrinque rotundatis, curvulis, 1-septatis, vix constrictis, hyalinis.

Hab. in foliis Menispermi dahurici in lapidosis ad flumen Jenissei in Sibiria (Martianoff).

IV. In Monocotyledoneis et Acotyledoneis.

119. Ascochyta Erythronii Sacc. et Sp. Mich. I. p. 163. - Maculis 2241 albescentibus, indeterminatis; peritheciis punctiformibus, lenticularibus, pertusis, 150-180 u. diam.; contextu parenchymatico, dilute fuligineo; sporulis oblongo-fusoideis, 14-18 = 4-5, utrinque acutiusculis, 1-septatis, vix constrictis, hvalinis.

Hab. in foliis Erythronii Dentis-canis, Conegliano in Ital. bor. (Spegazzini).

120. Ascochyta aquatica Speg. Mich. I. p. 483. — Peritheciis minutis, 2242 90-100 \(\alpha\). d., subepidermicis, contextu parenchymatico, densiusculo, olivaceo, ostiolo parvulo pertuso; sporulis oblongo-ellipticis, medio 1-septatis, ad septum non vel vix constrictis, dilute chlorinis, $7-9 \approx 2-3$.

Hab. ad folia putrida Lemnæ minoris prope Conegliano in Italia boreali.

121. Ascochyta teretiuscula Sacc. et Roum. Mich. II. p. 621. — Ma- 2243 culis nullis; peritheciis innatis, punctiformibus, pertusis, 100-110 μ . diam.; sporulis cylindraceis utrinque rotundatis, $10-14 \approx 21$ /, uniseptatis, vix constrictis, hyalinis.

Hab. in foliis Luzulæ in Arduennis (LIBERT).

122. Ascochyta socialis Sacc. Mich. II. p. 103. — Maculis vagis obso- 2244 letisque; peritheciis gregariis, punctiformi-lenticularibus, 100 u. diam., pertusis, epidermide velatis; sporulis fusoideis, 15-16 = 5, constricto-1-septatis, perfecte hyalinis.

Hab. in foliis putrescentibus convolutis Cyperacearum (Caricis?) ad storeas conficiendas adhibitis et in aquis Sequanæ (Seine) diu natantibus, Parisiis. Legit cl. Gaudefroy, qui autumat storeas prædictas ex Sinis forte provenisse.

123. Ascochyta zeina Sacc. Mich. I. p. 165. — Maculis longitudina- 2245 liter oblongis sanguineis, margine subconcolori; peritheciis grega-

riis, punctiformibus, lenticularibus, pertusis; contextu laxiuscule parenchymatico, fuligineo; sporulis oblongo-ellipsoideis, $18 \approx 7^1/_2$, utrinque rotundatis, 1-septatis, leniter constrictis, crasse 2-nucleatis, hyalinis.

Hab. in pag. sup. foliorum Zeæ Maydis, Conegliano in Ita-

lia boreali (A. BERENGER).

124. Ascochyta Sorghi Sacc. Fungi Ven. Ser. II. p. 302. — Macu-2246 lis pallidis, sanguineo-cinctis; peritheciis sparsis punctiformibus, pertusis, atris; sporulis oblongo-ovoideis, 14 \times 3, 1-septatis, 4-guttulatis, hyalinis.

Hab. in foliis Sorghi vulgaris, Selva in Ital. bor., socià

Sphærellå Cerere Sacc., cujus est spermogonium.

125. Ascochyta sorghina Sacc. Mich. I. p. 167. — Maculis longitu-2247 dinaliter oblongis arescendo fuscis, sanguineo-marginatis; peritheciis dense gregariis, globoso-depressis, papillulatis, pro genere majusculis; sporulis oblongo-ellipsoideis, 20 × 8, 1-septatis, leniter constrictis, minute pluriguttulatis, hyalinis.

Hab. in foliis Sorghi vulgaris, Selva in Ital. bor. — Ab A. zeina peritheciis majoribus, sporulis pluriguttulatis etc. rece-

dere videtur.

126. Ascochyta donacina Sacc. Myc. Ven. Spec. 107 (ut status pyc- 2248 nidicus Leptosphæriæ donacinæ). — Peritheciis lenticularibus, $90-100~\mu$. diam.; sporulis didymis, 8-10 = 4-5, dilute flavis.

Hab. in culmis Donacis in Italia et Gallia.

127. Ascochyta perforans (Rob.) Sacc. Sphæria perforans Rob. in 2249 Kickx t. I. p. 354. — Peritheciis sparsis, minutis, nigris, ellipsoideis, immersis, ostiolo brevi epidermidem perforante, dein late pertuso; sporulis hyalinis, ellipticis, acutiusculis, 1-septatis.

Hab. in foliis Ammophilæ arundinaceæ in Belgio. — Spermogonium videtur Metasphæriæ Sabulatorum. — Cfr. Sphæ-

rella perforans (Sylloge I. p. 538).

128. Ascochyta Oryzæ Catt. Contrib. studio dei miceti che nascono 2250 sul Riso, Milano 1877, pag. 4. — Peritheciis epidermide sempér tectis, celluloso-membranaceis, nigris, apice pertusis, intus pulpa sporularum repletis; sporulis lineari-oblongis, utrinque rotundatis, septo medio transverso ægre percipiendo bilocularibus, 4-nucleo-latis, pallide flavicantibus, 15 = 4.

Hab. in foliis Oryzæ sativæ, Pavia in Italia.

129. Ascochyta phyllachoroides Sacc. et Malbr. Mich. II. p. 621. — 2251 — Peritheciis in macula stromatica nigra hinc inde gregariis, pun-



Sphærioideæ, Hyalodidymæ, Robillarda.

407

ctiformibus innatis; sporulis oblongis, 18-20 = 5-6, uniseptatis, loculo inferiore paullo tenuiore, hyalinis.

Hab. in utraque pag. foliorum languidorum graminum, Elbeuf in Gallia (MALBRANCHE).

130. Ascochyta graminicola Sacc. Mich. I. p. 127. — Maculis expal- 2252 lentibus v. obsoletis; peritheciis gregariis punctiformibus lenticularibus, 100 µ. diam., pertusis; contextu distincte parenchymatico fuligineo; sporulis ovato-fusoideis, 10-12 = 4, rectis, 1-septatis, 2nucleatis, hyalinis.

Hab. in foliis Arrenatheri avenacei, Berlin in Germania (P. Magnus). — Var. β. Holci Sacc. Mich. II. p. 350: sporulis quam in typo longioribus et angustioribus, nempe fusoideis, 16-18 = 3-31/2, leniter constrictis, minute 4-guttulatis, hyalinis; peritheciis lenticularibus, pertusis, 100 p. d., sæpius inter nervos seriatis. In foliis Holci lanati in Gallia (ΜΑΙΒRANCHE). — Var. γ. ciliolata Sacc. Mich.: sporulis utrinque obsolete penicillatis, 18-20 = 31/2-4, hyalinis, uniseptatis; peritheciis pertusis, 110-120 μ. diam., fuligineocontextis. In foliis graminum in Arduennis (LIBERT). — An hæc postrema potius Darlica?

131. Ascochyta Ischæmi Sacc. Mich. I. p. 164. — Maculis indeter- 2253 minatis expallentibus; peritheciis punctiformibus, globulosis, innatis; sporulis ellipsoideis v. ovoideis, $10 \approx 4^{1}/_{2}$, 1-septatis, non constrictis, 2-guttulatis, hyalinis.

Hab. in foliis culmisque Andropogonis Ischæmi, Narvesa, Treviso in Ital. bor. — Ascochytæ graminicolæ Sacc. F. Magn. n. 30 affinis.

132. Ascochyta Marchantiæ Sacc. et Sp. Mich. I. p. 167. - Macu- 2254 lis obsoletis; peritheciis punctiformibus, lenticularibus, 90-100 µ. diam., plerumque seriatim digestis, erumpentibus, distincte celluloso-contextis, olivaceo-fuligineis; sporulis oblongis, 13-15 = 3-4, constricto-l-septatis, loculo altero plerumque paullo crassiore, 2guttulatis, hyalinis.

Hab. in fronde emortua Marchantiæ, Conegliano in Italia bor. (Spegazzini).

ROBNLARDA Sacc. Mich. II. p. 8. emend. (Etym. a cl. M. L. A. Ro-BILLARD, botanophilo parisiensi). — Perithecia globoso-depressa, epidermide velata (maculicola, phyllogena) dein pertusa, membranacea. Sporulæ fusoideæ, 1-septatæ, chlorino-hyalinæ, apice setulas

longas (ternas) gerentes. Basidia nulla vel obsoleta. — A Pestalozzia præ ceteris perithecio præsente differt.

1. Robillarda sessilis Sacc. Mich. II. p. 8, Pestalozzia sessilis Sacc. 2255 M. V. n. 975, Mich. I. p. 261. — Maculis parvis, angulosis, albicantibus, rufo-cinctis; peritheciis epiphyllis, innatis, epidermide velatis, dein circumscissa pertusis, lenticularibus; sporulis sessilibus. oblongis, 9-11 = 31/2, 1-septatis, leniter constrictis, dilute olivaceis. set is ternis, $14 \approx 1$, hyalinis apice coronatis.

Hab. in foliis languidis Rubi cæsii, Colfosco in Italia bor.

2. Robillarda depazeoides (W. et C.) Sacc., Pestalozzia depazeoides 2256 Welw. et Curr. F. Angol. p. 284, t. XVII. f. 14. - Macula oblonga, grisea, 18 mill. longa, margine fusco; peritheciis minutis nigris, macula insidentibus; sporulis pallide fuscis continuis, dein 1-septatis, non constrictis, setis tribus longis coronatis, 12-15 v. longis (absque ciliis).

Hab. in foliis Fici and ongensis in summis jugis Pungo-Andongo in Africa.

ACTINONEMA Fries Summa Veg. Scand. p. 424. (Etym. actin radius, et nema filum). - Perithecia minuta, obtusa, subsuperficialia. astoma, fibrillis eximie dendritico-radiantibus, arachnoideis, epiphyllis, superficialibus adnata. Sporulæ typice oblongæ, hyalinæ, stipitatæ, 1-septatæ, vel (in subg. Asteromidio) 2-pluriseptatæ. — In pluribus speciebus fructificatio latet.

I. Eu-Actinonema. Sporulæ 1-septatæ.

1. Actinonema Rosæ (Lib.) Fr. S. V. Sc. p. 424, Asteroma Rosæ 2257 Lib. in Ann. Soc. Linn. 1826, Asteroma radiosum Fr. El. II. p. 151. — Epiphyllum; maculis purpurascentibus; fibrillis e centro radiantibus, ramosis distinctis, albido-arachnoideis; peritheciis tuberculiformibus, sparsis, collabentibus, nigricantibus; sporulis oblongis, constricto-1-septatis, 18-20 = 5, basidiis paullo brevioribus suffultis.

Hab. in pag. sup. foliorum nondum emortuorum Rosæ centifoliæ, gallicæ, rubiginosæ etc. in Suecia, Gallia, Britannia, Italia, Belgio, Germania, Austria, Lusitania, America boreali.

2. Actinonema Cratægi Pers. Myc. Eur. I. p. 52, Capillaria Cratægi 2258 Link Sp. pl. Fung. II. p. 22. — Epiphyllum; maculis fuscis; fibrillis e centro radiantibus, ramosis distinctis canescentibus, demum

e peritheciis minutissimis connatis nodulosis, nigricantibus; sporulis..... ignotis.

Hab. in pag. sup. foliorum Cratægi torminalis et Viburni Opuli in Gallia, Germania, Italia, Helvetia. - Asteroma Cratægi Desm. et Berk. ex parte sistit Fusicladium, dum genuina species toto habitu ad Actin. Rosce accedit, etsi ipse perithecia sporigera nondum viderim. - Maculæ fuscæ, irregulares, 6 mill. latæ, sed confluentes; etiam hypophyllæ, sed et ita steriles. Fibrillæ radiatim excurrentes, ramosæ, discretæ, folio innatæ, primo canescentes, dein vero e peritheciis nigris (ipsis fibrillis innatis, seriatis, confluentibus, sub lente forti tantum discernendis) nigricantes et noduloso-asperæ; apices vero pallent.

3. Actinonema Padi (DC.) Fr. Summa p. 424, Asteroma Padi DC. 2259 Fl. Fr. VI. p. 164, Phlyclidium Padi Wallr. Comp. n. 2310. -Peritheciis subrotundis, sparsis, minutissimis, patellaribus, pallidis, margine tenui concolore cinctis, sæpius confluentibus, hypostromati epiphyllo ex radiis filamentosis, compressis, deplanatis, tenerrimis, arcte adpressis, distinctis, arachnoideo-byssoideis, dichotomoramosis, a centro obsoleto inde dendritico-radiantibus albis composito adfixis, maculas centro fusco-cinerescentes mentientibus: sporulis ignotis.

Hab. in pag. sup. foliorum virentium Pruni Padi in Gallia, Germania, Suecia. — Accedit ad Act. Rosæ, sed hyphis ambitu longioribus, magis deplanatis minusque continuis crispulis, maculas longe ampliores præstantibus, et peritheciis minoribus distinguitur.

4. Actinonema Rubiacearum (Lév.) Sacc. Asteroma Rubiacearum 2260 Lév. in Ann. Sc. Nat. 1845, p. 64. - Peritheciis epiphyllis, minimis, globosis, nigris, subiculo fibrilloso-ramoso tenuissimo arcte adnato insidentibus; sporulis bilocularibus; basidiis filiformibus subramosis.

Hab. in foliis Rubiaceæ cujusdam in Senegal (Guillemin).

II. Asteromidium.

Sporulæ 2-pluriseptatæ.

5. Actinonema Guepini (Mont.) Sacc. Asteroma Guepini Mont. 7 Cent. 2261 p. 305-63. — Epiphyllum, maculare, atrum; maculis eximie orbiculatis planis confluentibus, zona dilutiore cinctis, sub epidermide ortis; filis macularum e centro radiantibus crassis fine acutis; peritheciis dimidiatis poro pertusis; sporulis oblongis quadrilocularibus, 25 μ. longis.

Hab. ad folia exotica Monocotyledoneæ cujusdam in calathos ad fabas arabicas invehendas texta (Guepin). — « An sporulæ propriæ? An species Asterince sec. Asteridii, ascis jam resorptis? ».

6. Actinonema Uvariæ (Lév.) Sacc. Asteroma Uvariæ Lév. Ann. Sc. 2262 Nat. 1846, p. 284. - Fibrillis epiphyllis, adnatis, radiantibus, ramosis, subparallelis; peritheciis raris hemisphæricis, ostiolo obsoleto: sporulis ovato-elongatis obtusis, 4-septatis.

Hab. ad folia Uvariæ parvifloræ in Senegambia. — Ma-

culæ 2-4 mill. diam.

DARLUCA Cast. Cat. pl. Mars. Suppl. p. 53. (Etym., a M. Darluc, rerum naturalium cultore, gallicano). - Perithecia globulosa, obsolete papillata, pertusa, superficialia, in soris Uredinearum plerumque parasitica, membranacea, contextu sæpius cyanescente. Sporulæ oblongæ vel fusoideæ, 1-septatæ, hyalinæ, utrinque mucoso- vel subpenicillato-apiculatæ.

1 Darluca Filum (Biv.) Cast. Cat. Pl. Marseill. Sup. p. 53, Sphæria 2263 Filum Biv. Bern. Stirp. rar. Sic. Manip. III. p. 12, t. III. p. I. Darluca vagans Cast., Diplodia uredinicola Desm. — Peritheciis gregariis, uredinicolis, exiguis, conico-globulosis, pertusis, atris; contextu celluloso cyaneo-fusco; sporulis oblongo-fusoideis, rectis, 15-18 = 3-4, 1-septatis, non vel leniter constrictis, hyalinis, utrinque obsolete et breve mucoso-penicillatis.

Hab. in Uredineis permultis ad plantas diversissimas e. g. Ipomeæ, Euphorbiæ, Rubi, Oreoselini, Galegæ, Chondrillæ, Oxalidis, Potentillæ, Pruni, Laburni, Violæ, Pycnanthemi, Quercus, Junci, Luzulæ, Agrostidis, Rhynchosporæ, Bromi, Panici etc. etc. in Italia, Gallia, Belgio, Germania, Britannia, America bor., Ceylon, Africa.

2. Darluca genistalis (Fr.) Sacc. Mich. II. p. 108, D. Filum \u03b3. do-2264 thideæformis Fuck. Symb. p. 379. - Perithecils minutis, in acervulos erumpentes, tuberculosos, atros, subhemisphæricos dense col-

lectis; sporulis ut in D. Filo.

Hab. in foliis caulibusque vivis Cytisi sagittalis, socio Uromycete Cytisi in Vogesis, Rhenogovia et Belgio. - Var. β. stromatica Fuck. l. c. effusa, stromatica, fusco-atra. In foliis et vaginis Agrostidis stoloniferæ, socia Uredine, in Rhenogovia. - Var. γ. hypocreoides Fuck. I. c. cæspitulis subglobosis, 1/2 mill. diam., griseis, ostiolis nigro-punctatis. In pag. inf. foliorum Salicis purpureæ, socia Uredine, in Rhenogovia.

3. Darluca Bivonæ Fuck. Symb. p. 379, t. II. f. 22. — Erumpens, 2265 epidermide expallescente, fissa circumdata; stromate spurio nigro, in centro albo, plerumque sporulis candidis tecto; peritheciis 3-10 in orbem circa pustulam centralem dispositis, minutis, globosis, atris, ostiolis papillæformibus, prominulis; sporulis cylindraceis, rectis, obtusis, utrinque cum appendicula fasciculari sporulam dimidiam æquante, subtilissima et facile caduca coronatis, 12 = 3.

Hab. in foliis et præcipue petiolis Populi moniliferæ, rarius in Rhenogovia. — «An reapse Sphæria Filum β . populicola Biv. huc spectet, mihi dubium est».

4. Darluca ascochytoides Sacc. et Roum. in Rev. Mycol. — Peri-2266 theciis hinc inde aggregatis sparsisve, tectis, globoso-lenticularibus, pertusis; contextu parenchymatico melleo; sporulis oblongo-fusoideis, 18 = 5, 1-septatis, vix constrictis, utrinque breve setigeris, hyalinis, obsolete guttulatis.

Hab. in foliis languidis Allii Ampeloprasi in Algeria. — Habitatione sine *Uredine* et contextu haud cyaneo a D. Filo differt. — Cfr. Ascochyta graminicola var. γ.

DIPLODINA West. 5 Not. p. 19 in nota (Etym. a *Diplodia*, cui analogum genus). — Perithecia subcutanea vel erumpentia, globulosopapillata, atra, glabrescentia. Sporulæ ellipsoideo-oblongæ, 1-septatæ, hyalinæ. — Est *Diplodia* hyalodidyma.

Diplodina Salicis West. 5 Not. p. 19, Kickx Fl. Fl. I. p. 394. — 2267
 Peritheciis sparsis, nigris, sphæricis, ²/₃ mill. diam., tectis, ostiolo
 papillato; sporulis fusoideis, angustis, hyalinis, 1-septatis, 15 ≈ 3,3,
 non constrictis.

Hab. in ramis Salicis babylonicæ, Courtrai in Belgio.

Diplodina stenospora (B. et C.) Sacc. Diplodia stenospora B. et C. 2268
 North Amer. Fungi n. 422. — Peritheciis papillæformibus e macula grisea oriundis; sporulis angustis, hyalinis breviter fusiformibus.

Hab. in cortice Aceris rubri in Carolina super. Amer. bor.

3. Diplodina truncata (Lév.) Sacc. Diplodia truncata Lév. Ann. Sc. 2259

Nat. 1846, pag. 290. — Peritheciis subcarnosis, compactis, albis, truncatis, epidermide lacerata circumdatis; sporulis minutis, ovato-elongatis, bilocularibus, hyalinis.

Hab. in ramis Æsculi Hippocastani, Paris in Gallia et Courtrai in Belgio. — An Melanconieis affinior?

4. Diplodina herbicola (B. et C.) Sacc. Diplodia herbicola B. et C. 2270

North Amer. Fungi n. 420 (bis). — Peritheciis sparsis, breviter hysteriiformibus, epidermide tectis; sporulis oblongo-ellipticis, hyalinis.

 ${\it Hab}$. in caule Nepetæ Catariæ in Pensylvania Amer. bor. (Michener).

5. Diplodina acervata (Lév.) Sacc. Diplodia acervata Lév. Ann. Sc. 2271 Nat. 1848, p. 259. — Peritheciis innatis, erumpentibus, cæspitosis, globosis, atris, opacis, intus albis, primum astomis, demum collo exerto pertuso donatis; sporulis minutis ovato-ellipsoideis, subhyalinis, 1-septatis.

Hab. ad caules aridos Astragali Monspeliensis, Montredon prope Marseille in Gallia.

6. Diplodina Dianthi (Ces.) Sacc. Diplodia Dianthi Ces. Bot. Zeit. 2272 1855, p. 286. — Subepidermica, gregaria, minutissima; peritheciis astomis; sporulis ovalibus, hyalinis, 1-septatis.

Hab. in caulibus Dianthi proliferi in Italia superiore. — «An Ascochyta?».

7. Diplodina Galii (Niessl) Sacc. Diplodia Galii Niessl Mahr. p. 33. 2273 — Peritheciis minutis, sparsis, subglobosis, atris, epidermide tectis, erumpentibus; sporulis ovatis, 2-guttatis, hyalinis, demum constricto-1-septatis, 7-8 ≈ 4-5.

Hab. in caulibus siccis Galii Mullaginis in Moravia.

8. Diplodina ascochytoides Sacc. Mich. II. p. 106 (sub Diplodia). — 2274
Peritheciis gregariis, erumpenti-superficialibus, globulosis, breve papillatis, ½ mill. diam.; contextu molliusculo, parenchymatico, fuscidulo; sporulis oblongis, utrinque rotundatis, 15-17 = 6, valde inæquilateralibus, didymis, leniter constrictis, 2-4-guttulatis, dilute chlorinis.

Hab. in caulibus Schoberiæ maritimæ, sociá Pleospora prope Pas-de-Calais in Gallia (Gaudefroy).

9. Diplodina Ellisii Sacc. Diplodia hyalospora C. et Ell. in Grevill. 2275—Peritheciis tectis, minimis, punctiformibus, membranaceis; sporulis elongato-ellipticis, 1-septatis, subconstrictis, hyalinis, 20-26 = 9, rarius 2-septatis.

Hab. in caule Chenopodii, New Jersey in Amer. bor.

10. Diplodina cassubica Sacc. Phoma? cassubica Sacc. Mich. I. p. 2276 p. 125. — Peritheciis gregariis, epidermide velatis, dein semi-erumpentibus, astomis, longitudinaliter oblongis, subcarbonaceis, aterrimis; sporulis cylindraceis, 18-20 \(\times 2\), utrinque obtusiusculis, curvulis rectisve, 1-septatis, non constrictis, hyalinis; basidiis dense fasciculatis, 50-60 \(\times 3\), filiformibus, guttulatis, hyalinis.

Hab. in caule Viciæ cassubicæ, Driesen, Brandenburg (P. Magnus).

- 11. Diplodina deformis (Karst.) Sacc. Diplodia deformis Karst. Symb. 2277 Fenn. XV. pag. 156. Peritheciis sparsis, sæpe 2-4-aggregatis, emergentibus, variis, subastomis, atris, 0,3 mill. d.; sporulis elongatis, vel oblongo-fusoideis, rectis, 1-septatis, hyalinis vel dilutissime flavidis, 9-13 = 2-3.
- Hab. in ramulis emortuis Sambuci racemosæ in Fennia.
 12. Diplodina periglandis (C. et H.) Sacc. Diplodia periglandis Cooke 2278 et Harkn. in Grev. 1881 p. 83. Erumpens; peritheciis globosis, atris, demum subliberis; sporulis ellipticis, uniseptatis, hyalinis, medio non constrictis, 15 ≈ 4.

Hab. in glandibus quercinis in California.

Diplodina dracænicola Sacc. Cfr. Grev. 1881, p. 48. — Sparsa, 2279 minuta atro-maculosa; sporulis oblongis, constricto-1-septatis, hyalinis, 15-17 μ. longis.

Hab. in foliis Dracene culte in Britannia, socio Mycosporio dracenicolo B. et Br.

14. Diplodina graminea Sacc. Mich. II. p. 297 (sub *Diplodia*). — 2280 Peritheciis minutis, globoso-conoideis, erumpentibus, sæpe 2-4 seriatim connatis, nigris; sporulis oblongis, 15-16 = 5-7, constricto-didymis, loculis quandoque secedentibus, hyalinis.

Hab. in culmis Cynodontis Dactyli, Padova in Italia bor.

15. Diplodina arundinacea Sacc. Pleosporæ (Leptosph.) arundinaceæ 2281 Micropycnidium Fuck. Symb. p. 137. — Peritheciis innato-erumpentibus, sæpe cæspitulosis, papillatis; sporulis oblongis, 1-septatis, hyalinis, 12 ≥ 2.

Hab. in culmis Phragmitis communis in Rhenogovia.

16. Diplodina Parmeliæ (B. et C.) Sacc. Diplodia Parmeliæ B. et C. 2282 North Amer. Fungi n. 421 (bis). — Peritheciis depressis, laxe lanatis, apice perforatis; sporulis medio constrictis, articulis inæqualibus, hyalinis.

Hab. parasitica in Parmelia quadam in Carolina infer. — «An potius Chætodiplodiæ species?».

CYSTOTRICHA B. et Br. Ann. N. H. n. 448. (Etym. cyste vesica, et thrix seta). — Perithecia superficialia vel subsuperficialia, lignicola, horizontaliter elongata, longitrorsum dehiscentia. Sporulæ oblongæ, 1-septatæ, hyalinæ, basidiorum filiformium articulatomoniliformium lateribus insertæ. — Hinc ad Subcupulatas, illic ad Nectrioideas forte accedit.



1. Cystotricha Striola B. et Br. Ann. N. H. n. 448, t. XII. fig. 10. 2283 — Peritheciis punctiformibus vel linearibus, sæpe breve seriatis, nigro-subrubescentibus, disco rubente; basidiis cylindricis, valde evolutis, sursum 1-2-ramosis, articulato-moniliformibus, articulis subcuboideis; sporulis pleurogenis oblongis, continuis, dein 1-septatis, pellucidis.

Hab. in ligno decorticato in Britannia. — Fructificatio fere

Tubercularice sed perithecium adest.

2. Cystotricha stenospora B. et C. North Amer. Fungi n. 450 (bis). 2284
 — Linearis vel hysteriiformis inter fibras ligneas erumpens; basidiis moniliformibus; sporulis lateralibus uniseptatis, breviter fusiformibus, hyalinis.

Hab. in ligno dealbato Alni in Pensylvania (MICHENER).

RHYNCHOPHOMA Karst. Hedw. 1884, p. 19, em. (Etym. rynchos rostrum, et Phoma). — Perithecia subglobosa, rostrata, erumpentia vel subsuperficialia. Sporulæ ovato-oblongæ distincte vel obsolete l-septatæ, hyalinæ. — Est Phoma sed perithecio rostrato et sporulis bilocularibus.

1. Rhynchophoma trachelina (Lév.) Sacc. Sphæronæma thrachelium 2285 Lév. Ann. Sc. Nat. 1846, p. 280. — Peritheciis elongatis, cylindricis, rugosis, apice pertusis stromate atro subcarbonaceo impositis; sporulis minutissimis, ovatis, bilocularibus.

Hab. ad truncos putridos in Hispaniola (POITEAU). — Perithe-

cia 3-4 mill. alta.

2: Rhynchophoma crypta Karst. Hedw. 1884, p. 19. — Peritheciis 2286 sparsis, ligno alte innatis, subsphæroideis vel ovoideis, atris, 100–150 μ . latit., rostro teretiusculo, gracillimo, perithecio duplo quadruplove longiori, apice ultimo conoideo prominulo; sporulis ellipsoideis simplicibus vel guttulatis, subinde spurie tenuiter uniseptatis, $6-8 \approx 3-4$.

Hab. in ligno carioso Tiliæ ulmifoliæ, Aboa Fenniæ.

3. Rhynchophoma Radula (B. et C.) Sacc. Sphæronema radula B. 2287 et C. North Amer. Fungi n. 402. — Erumpens, conica, compressa; apice sæpe truncato ob sporulas adhærentes pallide roseo; sporulis brevibus, fusiformibus, hyalinis, uniseptatis vel endochromate utrinque retracto.

Hab. in ramis Aceris rubri in Carolina infer. Amer. bor.

REPERTORIUM

SPHÆRIOIDEARUM HYALODIDYMARUM

SECUNDUM MATRICES

Obs. A. indicat Ascochyta. — Ac. Actinonema. — C. Cystotricha. — D. Darluca. — Di. Diplodina. — R. Robillarda. — Rh. Rhynchophoma.

Numeri 1123 — 2287 citantur 123 — 287

Acacia - A. 179. Acer - Di. 268. - Rh. 287. Æsculus - Di. 269. Agrostis - D. 263. 264. Allium - D. 266. Alnus - C. 284. Althæa - A. 208. Ammophila - A. 249. Andropogon - A. 253. Anemone - A. 187. Anethum - A. 214. Anona - A. 160. Anthyllis - A. 200. Aquilegia — A. 191. Arauja - A. 238. Arbutus - A. 161. Aristolochia - A. 237. Armoracia - A. 194. Arrenatherum - A. 252. Astragalus - Di. 271. Astrantia - A. 212. Aucuba - A. 147, 148.

Berberis - A. 124, 182,

Bignonia — A. 157, 158, Brassica — A. 195, Bromus — D. 263, Bupleurum — A. 215, Buxus — A. 169, 170,

Calveanthus - A. 165. Calystegia — A. 225. Carpinus - A. 171. Centaurea - A. 218. Cephalanthus - A. 164. Cercis - A. 126. Chenopodium - Di. 275. Chlora - A. 220. Chondrilla - D. 263. Cicer - A. 197, 198. Cineraria - A. 219. Citrus - A. 153, 154. Clematis - A. 188. Cnicothamnus - A. 155. Cornus - A, 146. Coronilla - A. 125. Corylus - A. 172. Cratægus - A. 130. - R. 258. Cynodon — Di. 280. Cyperaceæ — A. 244. Cytisus — A. 127. 180. — D. 264.

Datura — A. 224.
Dianthus — A. 203. — Di. 272.
Digitalis — A. 229. 230.
Donax — A. 248.
Dracæna — Di. 279.

Elæagnus — A. 162. Eryngium — A. 213. Erythronium — A. 241. Euphorbia — D. 263. Evonymus — A. 236.

Ficus — A. 175. — R. 256. Fragaria — A. 205. Fraxinus — A. 134, 135.

Galega — D. 263. Galium — Di. 273. Garrya — A. 167. Graminaceæ — A. 252.

Hedera — A. 149. 185. Helleborus — A. 189. Hypericum — A. 232.

Ipomæa — D. 263. Iuncus — D. 263.

Knautia - A. 216.

Laburnum — D. 273. Lamium — A. 231. Lemna — A. 242. Ligustrum — E. 136. Limonia — A. 152. 153. Lonicera — A. 141. 142. 143. Luzula — A. 243. — D. 263.

Magnolia — A. 123. Malva — A. 210. Manioht — A. 186. Marchantia — A. 254. Menispermum — A. 240. Momordica — A. 233. Monocotyledoneæ — R. 261. Myrtaceæ — A. 159.

Nepeta — Di. 270. Nerium — A. 166. Nicotiana — A. 223. Nymphæa — A. 192.

Oreodaphne — A. 163. Oreoselinum — D. 263. Orobus — A. 199. Oryza — A. 250. Oxalis — D. 263.

Paliurus - A. 145. Panicum - D. 263. Parmelia - Di. 282. Passiflora — A. 179. 211. Paulownia - A. 156. Petunia - A. 222. Pharbitis - A. 226. Phaseolus - A. 197. Philadelphus - A. 133. Phragmites - Di. 281. Physalis - A. 221. Pinus - A. 131. Pisum — A. 196. 197. Plantago — A. 234. Polygonum - A. 235. Populus — A. 176. 177. — D. 265. Potentilla — A. 204. — D. 263. Prunus — A. 132. — D. 263. — R. 259. Pycnanthemum - D. 263.

Quercus — A. 173. 174. — D. 263. — Di. 278.

Rhynchosia — A. 202.
Rhynchospora — D. 263.
Robinia — A. 128.
Rosa — A. 129. — R. 257.
Rubiaceæ — R. 260.
Rubus — A. 206. 207. — R. 355. —
D. 263.

Rumex - A. 236.

Salix — A. 178. — D. 264. — Di. 267.
Salvia — A. 236.
Sambucus — A. 141. — Di. 277.
Saponaria — A. 201.
Sarothamnus — A. 181.
Schoberia — Di. 274.
Senecio — y. 217.
Sorghum — A. 246. 247.
Spiræa — A. 209.
Stapelia — A. 239.

Tecoma - A. 183.

Tilia — Ph. 286. Trollius — A. 190.

Ulmus — A. 168. Uvaria — R. 262.

Verbascum — A. 227. 228. Viburnum – A. 137. 138. 139. — R. 258.

Vicia — Di. 276. Viola — A. 193. — D. 263. Vitis — A. 150. 151. 183,

Weigelia — A. 144. Zea — A. 245.

Sect. 5. Phragmosporæ Sacc.

Sporulæ oblongæ v. fusoideæ, 2-pluriseptatæ, fuscæ, rarius hyalinæ.

I. Phæophragmiæ Sacc.

Sporulæ fuligineæ v. olivaceæ.

Clavis analytica generum.

- * Perithecia discreta.
 - A) Sporulæ invicem liberæ.
 - § Sporulæ muticæ.

† Perithecia papillata v. subastoma.

Hendersonia. Perithecia typice subcutanea, ostiolata, subiculo nullo insidentia. — β . Sporocadus: perithecia majora; sporulæ amplæ massarioideæ. — γ . Hendersoniella: perithecia epixyla.

Couturea. Perithecia superficialia, subastoma, subiculo stellato melioloideo insidentia.

†† Perithecia apice ample operculatim circumscissa.

Angiopoma. Perithecia superficialia obconico-elongata, atra, hirta. Lichenopsis. Perithecia immersa, subglobosa, extus pallida, glabra.

§§ Sporulæ ciliatæ.

Cryptostictis. Sporulæ utrinque 1-aristatæ.

B) Sporulæ plures basi stellatim conjunctæ.

Prosthemium. Perithecia tecta, subcarbonacea, globoso-depressa.

** Perithecia stromate dothideaceo immersa.

Hendersonula. Est Hendersonia stromate dothideaceo instructa.

II. Hyalophragmiæ Sacc.

Sporulæ hyalinæ v. subhyalinæ.

Stagonospora. Perithecia subglobosa, tecta, plerumque minuta.

Mastomyces. Perithecia verticaliter elongata, erumpenti-superficialia. majuscula.

HENDERSONIA Berk. Suppl. p. 208, t. XI, f. 9, em. (Etym. ab E. G. Henderson botanophilo anglo). — Perithecia subcutaneo-erumpentia vel subsuperficialia, globoso-papillata vel depressa, membranacea vel subcarbonacea, atra. Sporulæ oblongæ vel fusoideæ, 2-pluriseptatæ, olivaceæ vel fuligineæ. — Adsunt formæ, in posterum in genera propria merito seponendæ, e. g. formæ peritheciis

epixylis subsuperficialibus (*Hendersoniella*); formæ massarioideæ sporulis maximis (*Sporocadus* Sacc.). Species hyalophragmias in genus proprium (*Stagonospora*) seposui.

I. Eu-Hendersonia.

Perithecia tecta, minora; sporulæ mediocres vel minutæ.

- A) In ramis Dicotyledonearum lignosarum.
- 1. Hendersonia hiseptata Sacc. Mich. I. p. 95. Peritheciis grega- 2288 riis subcutaneo-erumpentibus, 80-90 p. diam., globulosis, papillatis, atris; contextu membranaceo-carbonaceo, parenchymatico, distincto; sporulis ellipsoideis, initio stipitellatis, continuis, dein 3-locularibus, vix constrictis, loculo medio quandoque breviore, 10-12 = 5-6, fuligineis.

Hab. in ramulis Jasmini officinalis, Vittorio in Ital. bor. — Forma β. Capparidis: sporulis ad septa magis constrictis, $14-15 \approx 7-7^1/_2$. In sarmentis Capparidis, Conegliano (Spegazzini). — Forma γ. Pruni domestica: sporulis leniter constrictis, $10 \approx 4-5$, dilutioribus. In ejusdem ramulis, Padova.

2. Hendersonia pauciseptata B. et C. North Amer. Fungi n. 425. — 2289 Peritheciis applanatis, basi epidermide cinctis; sporulis oblongis, triseptatis, utrinque obtusis vel basi acutatis, hyalino-marginatis, $7-12 \approx 2\frac{1}{2}-4$, varie pedicellatis.

Hab. in ramis Liriodendri, Lauri Benzoin, Populi dilatatæ, Lagerstræmiæ in Carolina infer. et in Pensylvania Americæ sept. — Habetur var. in Rhoe glabra. «De sporularum colore nulla mentio, an ergo genuina Hendersonia?».

3. Hendersonia vagans Fuck. Symb. Myc. p. 392, Hend. Piri Fuck. 2200 En. Nass. n. 415 cum icone. — Peritheciis oblongis epidermidem dein erumpentibus, atris; sporulis longe stipitatis, oblongo-ellipticis, quadrilocularibus, flavis.

Hab. in cortice ramorum plurium arborum, e. g. Pruni domesticæ, Piri communis, Salicis, Sorbi, Fraxini etc. in Germania et Italia bor.

4. Hendersonia ulmea Karst. Symb. Myc. Fenn. XV. p. 158. — Pe- 2291 ritheciis subgregariis cortici plus minus insculptis, rotundatis, ut plurimum inæqualibus, sæpius papilla brevissima obtusa instructis, glabris, atris, 0,4-0,5 mill. d.; sporulis ellipsoideis vel oblongatis, utrinque plus minus attenuatis, 3-septatis, fulvis dein fulvo-fuligineis, 14-18 \pm 6-8.

Hab. ad ramos exsiccatos Ulmi, Aboa Fenniæ.

5. Hendersonia platypus Ell. et Everh. Torr. Bot. Cl. 1884, p. 73. 2292 - Peritheciis punctiformibus vel subelongatis, nigris macula oblonga vel subrotuuda alba, 2-4 = 1-2 mill. insidentibus; sporulis oblongo-ellipsoides, sed satis fudibundis, plerumque 12-15 = 3.5-4 subinde longioribus et angustioribus, 19 = 3, 3-septatis, flavidobrunneis; basidiis basi incrassatis, 7 μ. longis.

Hab, in sarmentis Rubi villosi et R. canadensis, Cobden Illinois Amer. bor. (F. S. EARLE). - Ab H. sarmentorum probe diversa.

6. Hendersonia sarmentorum West. Bull. de Brux. XVIII. n. 60, f. 2, 2293 - Peritheciis sparsis, numerosis, brunneo-fuscis, tectis, applanatis, poro dehiscentibus; sporulis ellipsoideis, brunneis, triseptatis, $10-12 \approx 4-5$, basidiis hyalinis suffultis.

Hab. in sarmentis ramisve plurium fruticum et arborum, e. g. Vitis, Hederæ, Rubi, Ampelopsidis, Aceris, Galegæ, Jasmini, Berberidis, Lauri, Ailanthi, Populi in Italia boreali, Britannia, Gallia et America bor. - Var. Sambuci: sporulis 12-14 = 6. In ramis Sambuci in Arduennis. — Sequentes formas in agro tarvisino et patavino observavi. - Hederæ: sporulis ellipsoideis, 3-septatis, $10 \approx 5$, fuligineis. — Aceris campestris: sporulis ut supra, $12 \approx 4$. — Ailanthi (in petiolis): sporulis ut supra, $11 \approx 4$. — Lauri: sporulis ut supra, $10-12 \approx 4\frac{1}{5}$. — Ampelopsidis hederaceæ: sporulis ut supra, 10-11 = 5. — Salicis vitellinæ: sporulis ut supra, $10-12 \approx 4$. — Berberidis: sporulis ut supra, 10-12 = 4-5. — Populi nigræ (in ligno): sporulis ut supra, 10-11 = 5. (An Hendersoniella?). — Jasmini officinalis: sporulis ut supra, $10-12 \approx 4-4^{1}/_{2}$. — Calycanthi floridi: sporulis ut supra, $12 \approx 4$.

7. Hendersonia Gleditschiæ Kickx Fl. Crypt. Fl. I. p. 368. — Peri- 2994 theciis nigris, erumpentibus, 2-8-aggregatis, poro pertusis; sporulis ellipsoideis, obtusis, brunneis, 3-septatis; basidiis filiformibus.

Hab. in ramulis et spinis Gleditschiæ Triacanthi in Belgio.

8. Hendersonia Wistariæ Cooke in Rav. Amer. Fungi 782, Grev. XII. 2295 p. 24. — Sparsa, tecta, dein erumpens; peritheciis subglobosis vel depressis, atro-fuscis; sporulis lanceolatis, triseptatis, fuscis, 10 × 3.

Hab. in ramulis Wistariæ sinensis in Carolina inferiore Americæ borealis.

9. Hendersonia mammillana (Fr.) Curr. Linn. Trans. 1859, XXII. 2296 tig. 85, Sphæria mammillana Fr. S. M. II. p. 487. — Peritheciis subsparsis, nigris, globoso-depressis, epidermide clypeato-nigrifi-

421

Sphærioideæ, Phragmosporæ, Hendersonia.

cata tectis; sporulis brunneis, triseptatis, vel endochromate 4-partito, magnitudine variis, $12-18 \mu$. longis.

Hab. in ramis Rhamni in Suecia et Britannia.

10. Hendersonia rhamnicola Cooke Præcursor Monogr. Henders. p. 21. 2297
 — Peritheciis.....; sporulis elongato-ellipticis, triseptatis, fuscis, 20 ≈ 9.

Hab. in ramis Frangulæ in Britannia (?).

11. Hendersonia decipiens Thüm. Myc. Univ. n. 577. — Peritheciis 2298 gregariis, rotundatis vel oblongis, leniter elevatis, epidermide tectis, dein liberis, perforantibus, pusillis, atris, in epidermidis partibus expallescentibus; sporulis numerosis, longo-ovoideis vel subovatis, utrinque obtusis, quadrilocularibus, loculis æqualibus, sine nucleo, sessilibus, dilute fuscis, subdiaphanis, $13-14 \approx 6-6.5$.

Hab. in ramulis emortuis, adhuc pendulis, Corni albæ, Bayreuth in Bavaria. — Differt a H. Corni Fuck. sporulis sessilibus,

fuscis, ovoideis non nucleatis.

12. Hendersonia Fiedleri West. in Kickx Fl. Crypt, Flandr. I. p. 389, 2299 H. Corni Fuck. En. F. Nass. n. 416 cum icone. — Peritheciis globosis, initio epidermide tectis, nigris; sporulis stipitatis, oblongis, 15-18 \approx 4, 3-septatis, fuligineis, loculo infero hyalino.

Hab. in ramulis Corni sanguineæ, C. albæ in Belgio, Italia bor., Bavaria, Britannia, Germania. — H. Fiedleri in Rabh. F. E. n. 1847 est p. p. Pestalozzia Veneta *P. tricuspis Sacc.

13. Hendersonia Viburni Ellis Bull. Torr. Bot. Club. 1882, p. 133. 2300 — Peritheciis in cæspitulos valsoideos innato-erumpentes digestis; sporulis ellipticis, brunneis, 3-septatis, 13-15 ≈ 5,5, sporophoris duplo triplove longioribus suffultis.

Hab. in Viburno Lentagine, Decorah, Iowa Amer. bor.

14. Hendersonia Syringæ Fr. Summa Veg. Scand. p. 416. — Gre- 2301 garia, suberumpens; peritheciis subellipticis depressis, rugulosis, nigris, ostiolo subtili; sporulis.... non descriptis.

Hab. in ramulis emortuis Syringæ vulgaris in Suecia, Austria infer. — Var. fructicola Thum. In fructibus Syringæ, Bayreuth Bavariæ.

15. Hendersonia occulta (Lib.) Fr. Sacc. Mich. II. p. 629, Sphæria 2302 occulta Lib. nec Fr. — Peritheciis gregariis, subcutaneo-erumpentibus, globulosis, 200 μ. diam., pertusis; sporulis cylindraceo-clavulatis, 25 ≈ 3, rectis curvulisve, apice obtusioribus, 5-septatis, non constrictis, olivaceo-fuligineis, basidiis fasciculatis, cylindraceo-nodulosis, polymorphis subhyalinis suffultis.

Hab. in ramis corticatis Syringæ, Malmedy in Arduennis. -Sphæria occultata Fr. El. II. p. 72 potius Diaporthem resecantem spectare videtur.

16. Hendersonia Pubentis Cooke Præcursor Monogr. Henders. p. 22, 2303 Hend. Sambuci Peck in 25 New York Report p. 87, non West. - Peritheciis numerosis, sparsis, minutis, nigris, initio epidermide tectis, dein erumpentibus; sporulis elliptico-oblongis, coloratis, triseptatis, 12 = 5.

Hab. in ramis Sambuci pubentis in America boreali. —

Sporulæ initio 1-septatæ.

17. Hendersonia Sambuci Müll. (sec. exempl. Winteri in meo Her- 2304 bario), Sacc. Mich. I. p. 213. - Peritheciis gregariis, minutis, globoso-papillatis, nigris, intus epidermide tectis dein liberis; sporulis oblongo-fusoideis, 10-12 = 3, 1-3-septatis, olivaceo-fuligineis.

Hab. in ramis corticatis Sambuci nigræ, Selva in Italia sup. Germania et Sibiria. — Var. β. detecta: sporulis 16-18 = 2-21/2, 3-septatis, olivaceis. In ramis Sambuci decorticatis in Gal-

lia (LETENDRE).

18. Hendersonia diplodioides Ell. et Everhart. in litt. ad me. — Pe- 2305 ritheciis subdeplanatis, 1/3 mill. diam., epidermide rupta cinctis; sporulis ellipticis, brunneo-fuligineis, biseptatis, ad septa plerumque leviter constrictis, 22-30 = 18-20; basidiis 20-25 = 5 μ . longis.

Hab. in cortice Sambuci glaucæ prope Washington Amer.

bor. (W. N. Suksdorf).

19. Hendersonia hirta (Fr. p. p.) Curr. Simpl. Sphær. p. 324, Sphæ- 2306 . ria hirla Fr. S. M. II. p. 483, p. p. — Peritheciis tectis, pusillis, depressis, subirregularibus, subtiliter villosis, nigricantibus; ostiolo erumpente; sporulis oblongis, 3-septatis, brunneis, 12-15 μ . longis.

Hab. in ramis emortuis Sambuci racemosæ in Suecia et Germania. — Probabiliter status pycnidicus Massariæ hirtæ. Cfr.

Syll. II. p. 9.

20. Hendersonia Peckii Clinton in Peck Rep. on the St. Mus. N. Y. 2307 - Peritheciis minutis, punctiformibus, epidermide tectis, erumpentibus, nigris; basidiis longis exilibus; sporulis oblongis, dilute coloratis, triseptatis, 12-18 u. longis, basidio brevioribus (a quo mox deciduis).

Hab. in ramis vivis Loniceræ flavæ, Buffalo Amer. bor. 21. Hendersonia Mariæ Clinton in Peck Rep. on the St. Mus. N. Y. 2308

- Peritheciis globulosis, minutis, atris; sporulis oblongis, subinde

Sphærioideæ, Phragmosporæ, Hendersonia.

423 etimo

leniter constrictis, 5-septatis, 25 μ . longis, coloratis, loculo extimo utroque hyalino; basidiis persistentibus, sporula brevioribus.

Hab. in ramis virentibus Loniceræ flavæ, Buffalo Amer. bor. (CLINTON).

22. Hendersonia Loniceræ Fries Summ. Veg. Sc. p. 146, sec. Lamb. 2309 Fl. Myc. Flandr. — Peritheciis pustuliformibus, brunneis, nitidis, tectis, poro dehiscentibus; sporulis elongatis, obtusis, triseptatis.

Hab. in ramulis Louiceræ Caprifolii, Liege in Belgio et in Suecia. — Color sporularum ignotus: an ergo Stagonospora? Sec. Cooke Præc. p. 20 Diplodia polymorpha De Not. huc spectat, ouæ vero Camarosporium.

23. Hendersonia obtusa Cooke Præcursor Hend. p. 20, Hend. Loni-2310 ceræ Cooke in Grevillea IV. p. 115, nec Fr. — Peritheciis gregariis, minutis, primo tectis, atris; sporulis ovatis oblongisve, brunneis, 2-3-septatis, non constrictis (forte tantum plasmate 2-3-partito).

Hab. in ramulis Loniceræ diversifoliæ Saharunpore in India orient.

24. Hendersonia Vitis (Schulz.) Sacc. Cheilaria Vitis Schulzer v. Müg- 2311 genburg in Pirotta I Funghi parass. dei Vitigni p. 67. — Peritheciis magnis, nigris, gibbosis, demum cupuliformibus; basidiis simplicibus, molliusculis, luteolis, monosporis; sporulis oblongis, apice obtusis, plerumque 5-septatis, pallide brunneis, 22-28 \u2226 6-8.

Hab. in ramis Vitis viniferæ in Hungaria (Schulzer).

25. Hendersonia Vitis-silvaticæ (Cast.) Catt. I Funghi parass. dei 2312 Vitigni p. 61, Sphæria Vitis-silvaticæ Castagne Catal. pl. Marseille p. 173. — Peritheciis rotundis vel ovatis, nigris, epidermide rupta cinctis, prominulis; ostiolo conico; basidiis monosporis; sporulis ovoideis, distinctissime 2-septatis.

Hab. in sarmentis Vitis viniferæ var. silvestris, Marseille in Gallia (Castagne). — An Stagonospora?

26. Hendersonia ampelina Thum. Pilze des Weinstockes p. 147. — 2313 Peritheciis gregariis, liberis, plano-orbiculatis vel pseudo-disciformibus, leniter elevatis vel subcompressis, sublevibus, atris; sporulis subclavatis vel clavato-lanceolatis, utrinque angustatis, subacutatis, quadri- raro triseptatis, non pedicellatis, dilute fuscescentibus, subpellucidis, 14-16. ≈ 6-7.

Hab. in sarmentis emortuis Vitis æstivalis, Albany in America septentr. (Peck).

27. Hendersonia longipes B. et C. North Amer. Fungi n. 425bis. - 2314

Peritheciis demum liberatis, collapsis; sporulis oblongis, angustis, triseptatis, pedicellis longissimis ex hyphis decumbentibus septatis oriundis.

Hab. in ramis Vitis et Rosæ in Carolina sup. — An Stagonospora?

28. Hendersonia fissa (Fr.?) Sacc. Sphæria fissa Fr.? Hazl. Sph. 2315 Ros. p. 215, fig. 21-22. — Peritheciis globosis, stromate villosofurfuraceo insertis, subconfluentibus, rugulosis, papillatis, demum fisso-dehiscentibus; sporulis oblongo-ellipsoideis, utrinque rotundatis, 3-septatis, loculis interioribus fuligineis, extimis subhyalinis, 13-14 μ. longis; basidiis sporula duplo longioribus, articulatis.

Hab. in ramis Rosarum in Hungaria.

29. Hendersonia Rubi West. (ut var. H. sarmentorum), Sacc. Mich. 2316 I. p. 214. — Peritheciis sparsis vel gregariis, globoso-depressis, papillulatis, atris, subcutaneo-erumpentibus; sporulis ellipsoideis, $12-18 \approx 5-6$, 3-septatis, fuligineis, loculo infimo pellucido.

Hab. in sarmentis Rubi fruticosi, Colli Euganei in Italia bor., in Belgio et Gallia. — Affinis Hendersoniæ sarmentorum

West. a qua tamen satis differt.

30. Hendersonia europæa Speg. F. Arg. Pug. IV. n. 303. — Peri- 2317 theciis lenticulari-subglobosis, primo tectis, dein erumpentibus, immersis, parvulis, 200-300 μ . d., densiuscule gregariis, membranaceosubcarbonaceis, atris, indistincte ostiolatis, in senectute sæpe irregulariter ruptis; sporulis ellipticis, majusculis, 38-40 \approx 15, opace fuligineis, 3-septato-constrictis, loculis 2 extimis minoribus pallidioribusque subsessilibus, paraphysibus vix longioribus, filiformibus, hyalinis obvallatis:

Hab. in ramis putrescentibus Rubi discoloris ad sepes, Boca del Riachuelo. — Species a genere Hendersonia nonnihil recedens.

31. Hendersonia Tiliæ Lév. in Ann. Sc. Nat. 1846, p. 288. — Pe-2318 ritheciis gregariis intus extusque nigris, cortice immersis, ostiolo minute papillatis; sporulis elliptico-elongatis, 2-3-septatis, brunneis. Hab. in cortice Tiliæ europææ, Paris in Gallia.

32. Hendersonia coryneoidea Cooke et Harkn. in Grevill. 1881, p. 128. 2319

— Peritheciis sparsis, tectis, dein epidermidem stellatim findentibus; sporulis magnis, lanceolatis, 5-7-septatis, loculis ultimis hyalinis, ceteris olivaceo-fuscis, 50 = 10.

Hab. in ramis. Eucalypti in California. — Sporulæ Corynei sed perithecio inclusæ.

- 33. Hendersonia Eucalypti Cooke et Harkn. in Grevill. 1881, p. 128. 2320 Peritheciis in maculas orbiculares collectis, immersis; sporulis ellipticis, infra attenuatis, sursum subclavatis, triseptatis, fuscis, 20 = 6, dein erumpendo inquinantibus.
 - Hab. in ramulis et foliis emortuis Eucalypti in California.

 Forma in ramis præbet perithecia magis sparsa et sporulas saturatius coloratas, ceterum non diversa.
- 34. Hendersonia Tecomæ Sacc. Mich. I. p. 212. Peritheciis (ge- 2321 nuinis?) epidermide tumidula et nigrificata velatis, globosis, breviter papillatis; sporulis ovato-oblongis, rectis vel curvulis, 8-11 \$\infty\$5, initio continuis, stipiteque brevissimo conico hyalino fultis, dein 3-septatis, non constrictis, dilute fuligineis.

Hab. in ramis Tecomæ radicantis, Conegliano in Italia bor. (Spegazzini).

35. Hendersonia Symploci B. et Br. F. of Ceylon n. 794. — Peri- 2322 theciis nitidis, sæpe circinantibus; sporulis fusiformibus triseptatis, 30 μ. longis.

Hab. in Symploco obtuso, Central province Indiæ orient.
— «An Stagonospora?».

36. Hendersonia hyalopus B. et C. North Amer. Fungi n. 428. — 2323 Peritheciis in cæspitulos minutos congestis epidermide cinctis; sporulis brunneis fusoideis, breviusculis, obliquis, utrinque acutis, 5-septatis; pedicellis brevibus hyalinis.

Hab. in ramis Rhois copallinæ in Carolina inferiore.

37. Hendersonia Glabræ Cooke Præcursor Monogr. Henders. p. 21, 2324 Hendersonia pauciseptata forma Rhois B. et C. North Amer. Fungi. — Peritheciis.....; sporulis breviter fusiformibus, triseptatis, fuscis, 15 ≈ 6,5.

Hab. in ramis Rhois glabræ in Amer. bor.

38. Hendersonia findens Cooke in Grevill. (sub nom. fissurata). — 2325. Gregaria; peritheciis in lineas erumpentibus, epidermidem findentibus; sporulis arcte ellipticis, brunneis, triseptatis, 12 = 4,5.

Hab. in cortice Fici, Darien, Georgia, in Amer. bor.

39. Hendersonia salicina Sacc. Cucurbitariæ (Melanomma) Hendersoniæ pycnid. Fuck. Symb. p. 172. — Peritheciis spuriis subcutaneis scutiformibus confluentibusque, 2 mill. diam., griseis, intus fuscis, compactis; sporulis longissime stipitatis, stipite mox deciduo, oblongis, antice obtusioribus, 3-septatis, flavis, 16-18 \u22266.

Hab. in ramis corticatis Salicis auritæ in Rhenogovia. — «An Coryneum?».

40. Hendersonia Pini Fuck. Symb. Myc. App. nec West. (quæ Ca-2327 marosporium). — Peritheciis (?) in cortice nidulantibus, atris, demum laceratis; sporulis cum pedicello longissimo colorato, maturis oblongis, rectis, utrinque obtusis, medio quandoque parum contractis, 3-septatis, demum obscure fuscis, 24 ≈ 8.

Hab. in ramis corticatis Abietis excelsæ in Hallgarter Wald Rhenogoviæ.

41. Hendersonia rostrata Sacc. et Ellis Mich. II. p. 572. — Peri-2328 theciis sparsis, innato-erumpentibus, globulosis, vix papillatis, contextu parallele celluloso, fuligineo; sporulis fusoideis curvulis, utrinque cuspidatis, 3-4-septatis, ochraceo-olivaceis, utrinque sensim pallidioribus, totis 50-55 ≈ 3, parte colorata, 30-35 μ. longa; basidiis brevibus, hyalinis, interdum furcatis.

Hab. in cortice ramorum Pini, Newfield N. J. in Amer. bor. (Ellis). — Hendersonice fusarioidi analoga.

42. Hendersonia fusarioides Sacc. Mich. I. p. 213. — Peritheciis e 2329 peridermio dealbato erumpenti-superficialibus atris, globulosis vel (collabascendo?) subcupularibus, epapillatis; sporulis in basidiis ramosis furcatisve acrogenis, fusiformibus, 35-38 ≈ 4-5, subinæqualibus, curvulis, 3-5-septatis, pallide fuligineo-olivaceis, loculis extimis hyalinis.

Hab. in cortice duriore Robiniæ Pseudacaciæ, Conegliano in Ital. bor., et Quercus Suberis in Algeria (Specazzini).
— Species Hendersoniæ Arcu B. et. Br. cognata, at contextu fuligineo nec cœruleo, sporulis subolivaceis, sæpius 5-septatis distincta.

43. Hendersonia exigua Cooke in Grevillea et F. Brit. II. n. 24 cum 2330 icone. — Peritheciis sparsis, minutis, punctiformibus, membranaceis, nigro-brunneis, leniter applanatis, 85 μ. diam.; sporulis minutis, ellipticis, biseptatis, pallide brunneis, 10-12 μ. longis. Hab. in cortice leviore in Britannia.

B. In foliis fructibusque Dicotyledonearum lignosarum.

44. Hendersonia Magnoliæ Sacc. Mich. I. p. 216. — Maculis arescen- 2331 do candicantibus, irregularibus, brunneo-marginatis; peritheciis remote sparsis, punctiformibus, globoso-lenticularibus, 150 μ . diam., pertusis; sporulis oblongo-fusoideis, $12-16 \approx 3-31/2$, utrinque acutiusculis, 3-septatis, non v. paullulum ad septum medium constrictis, olivaceis.

Sphærioideæ, Phragmosporæ, Hendersonia.

427

Hat. in foliis languidis Magnoliæ grandifloræ, Treviso in Ital. bor., et Perpignan in Gallia.

45. Hendersonia Henriquesiana Sacc. et Roum. Rel. Myc. Libert. Ser. 2332 1V. n. 148. — Peritheciis epidermide velatis, globoso-depressis, atris, ½ mill. diam.; sporulis fusoideis, utrinque acutiusculis, rectis, 14-18 = 4-6, 3-septatis, melleo-fuligineis, loculo infimo hyalino; basidiis filiformibus fasciculatis, hyalinis, 20-22 = 2.

Hab. in fructibus putrescentibus Rosæ villosæ, Malmedy in Arduennis (Libert). — Ad Hendersoniam Fiedleri accedit.

46. Hendersonia vulgaris Desmz. 22 Not. p. 12. — Epiphylla; pe-2333 ritheciis minutis, erumpenti-innatis, globoso- vel ovoideo-depressis, nigris, nitidis, vertice dein ruptis, in macula polymorpha, albida vel grisea exarida subgregariis; sporulis ellipsoideis, obtusis, 15 = 6,5, 3-septatis, fuscidulis.

Hab. in foliis languescentibus Rubi et Populi in Gallia.

47. Hendersonia theicola Cooke in Grevillea. — Peritheciis globosis, 2334 nigris, prominulis, apice pertusis, sparsis vel subgregariis; sporulis cylindricis, utrinque rotundatis, triseptatis, pallide brunneis, 10-12,5 μ. longis, basidiis 10-12 μ. longis, hyalinis suffultis.

Hab. in foliis Theæ, quam valde vexat, Cachar in India orientali.

48. Hendersonia maculans (Corda) Lév. Sporocadus maculans Corda lcon. fung. III. p. 23, fig. 66. — Peritheciis epi- et hypophyllis, in maculis indeterminatis albis sparsis, immersis, contextu e cellulis oblongis fuligineis constante; sporulis fusoideis, utrinque acutiusculis, $20-22 \approx 6-7$, fuligineis, basidiis bacillaribus, $25 \approx 1\frac{1}{2}$ hyalinis suffultis.

Hab. in foliis Camelliæ et Quercus Ilicis in Gallia et Bohemia.

49. Hendersonia cornicola (DC. p. p.) Linn. Trans. 1859, fig. 146, 2336 . Sphæria cornicola DC. Fl. Fr. p. 147 p. p. — Maculis arescendo expallentibus; peritheciis minutis, sparsis; sporulis ellipticis, 3-septatis, pallide brunneis, 10-15 μ . longis, basidiis longis suffultis.

Hab. in foliis Corni in Gallia. — Sphæria cornicola DC. p. p. est Septoria.

50. Hendersonia foliorum Fuck. Symb. myc. p. 392. — Peritheciis 2337 spuriis tectis, in macula pallidiori, atris, ostiolis (?) subcanicis, epidermidem perforantibus, et atro-inquinantibus; sporulis longe pedicellatis, oblongis, subcurvatis, triseptatis, flavis, loculo ultimo hyalino, 15 = 6-7.

Hab. in foliis Quercus, Populi nigræ, Salicis Capreæ. Pruni domesticæ, Cydoniæ in Germania, Italia, Gallia. -B. Viburni Sacc. Mich. II. pag. 572: maculis amphigenis, angulosis. ochraceis: peritheciis sparsis; sporulis oblongis, 15-16 = 5-6, 3septatis, ad septa constrictis, æqualiter fuligineis, 4-guttatis. In foliis languidis Viburni prunifolii, Delaware Co. Pensylvaniæ (Doct. G. MARTIN, dedit ELLIS).

51. Hendersonia fructigena Sacc. Mich. I. p. 212. - Peritheciis spar- 2338 sis erumpentibus e globoso depressis, papillulatis, contextu minute parenchymatico dilute fuligineo; sporulis cylindraceis initio stipitellatis, 23-25 = 6, 3-septatis, ad septa leniter constrictis, minute guttulatis, dilute fuligineis, stipitibus sporula brevioribus.

Hab, in drupis arescentibus Cerasi, Padova in Ital. bor.

52. Hendersonia Cydoniæ C. et Ell. in Grevillea t. 99, f. 5. - Epi- 2339 phylla; peritheciis minutis, atris, in maculas pallidas congestis; sporulis subfusiformibus, triseptatis, brunneis, 15-18 = 6-7.

Hab. in foliis vivis Cydoniæ, New Jersey in Amer. bor.

53. Hendersonia cydonicola Thum. et Pass, in Thum. Fungi pomi- 2340 coli p. 114. - Peritheciis densissime gregariis, crustam fere granulatam formantibus, sæpe confluentibus v. contiguis elevatis, irregularibus, conico-subglobosis, atris, pro ratione magnis, opacis, insidentibus; sporulis regularibus, clavatis vel clavato-obovatis. vertice rotundatis, basi in stipite hyalino, stricto, subæquilongo, citissime evanido angustatis, 3-septatis, ad septa non constrictis, dilute fumosis. $10 \approx 5$.

Hab. in fructu arido, non putrescente, Cydoniæ sinensis, Parma in Italia (Passerini).

54. Hendersonia piricola Sacc, Fungi Ven. Ser. II. p. 311. - Macu- 2341 lis epiphyllis, magnitudine variis, angulosis, ex albo cinerescentibus; peritheciis globoso-lenticularibus, minutis, atris, sparsis; sporulis ovoideis 2-3-septatis, olivaceis, 10 = 5.

Hab. in foliis languidis Piri communis, Treviso in Italia boreali. - Pycnidium Leptosphæriæ Lucillæ.

55. Hendersonia Mali Thum. Contr. F. Litor. n. 138, tav. I. fig. 27. 2342 - Peritheciis disciformibus, epiphyllis, magnis, sparsis, planis, nigris in maculis exaridis, cinereis, orbiculatis, violaceo-cinctis; sporulis clavatis, vertice rotundatis, basi leniter angustato-acutatis, bi-triseptatis, ad septa non constrictis, pellucidis, dilute cinereis, $12-15 \approx 4-5$.

Hab. in foliis vivis Piri Mali, Gorizia.

56. Hendersonia Torminalis Sacc. Fungi Ven. Ser. V. p. 207. — Ma- 2443 culis epiphyllis, fuscis, aridis, latis; peritheciis (spuriis?) lenticularibus, atris, 1/5 mill. diam., remotiusculis; sporulis oblongis, 12- $15 \approx 6$, 6-locularibus, loculo basilari hyalino, ceteris fuscis, stipitibus filiformibus 12 μ . longis, hyalinis suffultis.

Hab. in foliis languidis Sorbi torminalis in silva Montel-

lo Ital bor. - Affinis Hendersoniæ foliorum Fuck.

57. Hendersonia Rhododendri Thum. Contr. Funghi Litor. n. 310. — 2344 Peritheciis sparsis, epiphyllis, globulosis, nigris in maculis valde irregularibus, arescendo fusco-griseis, zona obscuriore cinctis; sporulis lanceolato-cylindricis, utrinque subangustato-rotundatis, tri-vel quadriseptatis sed ad septa non constrictis, rectis, fuscis, 8-12 \(\times 4\).

Hab. in foliis vivis Rhododendri hirsuti, Plezzo in Ita-

Hab. in foliis vivis Rhododendri hirsuti, Plezzo in Ita

lia boreali.

58. Hendersonia eminens Desm. 19 Not. p. 9. — Hypophylla, sub- 2345 libera; peritheciis minutis, 200 μ. diam., subglobosis, fusco-nigris, mollibus; ostiolis papillatis, demum deciduis; sporulis ovoideo-oblongis, obtusis, pallide olivaceis, 3-septatis, 15 = 7.

Hab. in foliis siccis Quercus Ilicis in Gallia.

59. Hendersonia acericola Sacc. Mich. I. p. 216. — Maculis subcir-2346 cularibus, subochraceis; peritheciis lenticularibus, 80 μ . diam., pallide melleis; sporulis oblongis, $8-10 \approx 4$, utrinque obtusiusculis, chlorinis, basidiis brevissimis suffultis.

Hab. in foliis Aceris campestris, Selva in Italia bor. —

Affinis Hendersonice corylarice.

60. Hendersonia celtifolia Cooke, Præcursor Monogr. Henders. p. 22. 2347 Peritheciis.....; sporulis clavatis, triseptatis, fuscis, 15-25 = 8.

Hab. ad folia Celtidis in America boreali.

61. Hendersonia corylaria Sacc. Mich. I. p. 216. — Maculis amplis 2348 variis, arescendo subochraceis brunneo-cinctis; peritheciis punctiformibus, nigris; sporulis obovatis, deorsum acutiusculis apice subrotundatis, 12 = 7, 3-septatis, ad septa non (sed paullulum tandem ad medios loculos) constrictis, dilute fuligineis.

Hab. in foliis languidis Coryli Avellanæ, Selva in Italia

boreali.

62. Hendersonia Alcides Sacc. Mich. I. p. 215. — Maculis foliorum 2349 arescendo candicantibus fusco-cinctis, subcircularibus; peritheciis epiphyllis punctiformibus, atris; sporulis oblongo-ellipsoideis, utrinque rotundatis, 11 ≈ 6-7, 3-septatis, ad septa nonnihil constrictis, fuligineis.

Hab. in foliis Populi nigræ, Vittorio in Ital. bor. — Affinis Hendersoniæ piricolæ Sacc.

63. Hendersonia Araucariæ Thum. in Myc. univ. n. 682. — Perithe- 2350 ciis spuriis, sparsis, erumpentibus, amphigenis, subconicis, parvis, atris, epidermidem perforantibus; sporulis elongato-orculæformibus, utrinque plano-truncatis, triseptatis, ad septa obsolete constrictis, loculis æqualibus, breve pedicellatis, dilute fuscis, 15 = 5, sine pedicello; pedicellis hyalinis, evanescentibus, 4-5 μ. longis, parte superiore lenissime dilatatis.

Hab. in foliis languidis aridisve Araucariæ brasiliensis, A. Bidwelli, A. Cunninghamii, Roma (Bagnis), Gorizia et Strazig in Litor. Austr. (Bolle).

64. Hendersonia conorum De Lacr. Bot. Zeit. 1863, p. 229. — Pe-2351 ritheciis sphæroideis, ostiolo brevi notatis, gregariis, subcutaneis, epidermidem sublevantibus; sporulis oblongo-ovoideis, 3-septatis, fuscis, loculo infimo subhyalino, in basidium longum, gracile hyalinum abeunte sporophorisque ramosis insidente.

Hab. in strobilis Pini silvestris etc. in Gallia.

65. Hendersonia notha Sacc. et Br. F. Gallici n. 2239. — Perithe. 2352 ciis gregariis, globoso-depressis, subsuperficialibus, verruculosis, astomis, $\frac{1}{10}$ - $\frac{1}{8}$ mill. diam., contextu parum distincto; sporulis oblongo-cylindraceis, $10-12 \approx 4$, utrinque rotundatis, rectis, 3-septatis constrictisque, olivaceo-fuligineis.

Hab. in pagina inf. foliorum Juniperi communis, Troyes Galliæ (Briard).

66. Hendersonia thyoides C. et Ell. Grevillea t. 99. f. 4. — Sparsa, 2353 epiphylla; peritheciis subglobosis, atris, papillatis, superficialibus; sporulis lanceolatis, 5-septatis, brunneis, 25 = 9.

Hab. in foliis Cupressi thyoidis, New Jersey in Amer. bor.
67. Hendersonia foliicola (Berk.) Fuck. Symb. p. 391 Podisoma foliicolum Berk. in Sm. Fl. Br. V. p. 362. Pod. Juniperi 3. minus Corda Ic. I. p. 8, f. 122. — Peritheciis epiphyllis, brunneo-nigris, subglobosis, subellipticis vel irregularibus; sporulis ellipticis vel clavatis, obtusis, 3-5-septatis, basidiis filiformibus, radiatis, agglutinatis suffultis.

Hab. in foliis vivis Juniperi communis in Britannia et Germania.

C. In caulibus, foliis fructibusque Dicotyledonearum herbacearum.

68. Hendersonia pulchella Sacc. Mich. I. p. 112 (non Myc. Ven.) H. 2355 macrospora Sacc. Mycol. Ven. p. 199, t. XVII. f. 24, non Berk.

et Br. H, Saccardiana Cooke Præc. Hend. p. 21. — Peritheciis innato-prominulis, globulosis, breviter papillatis, atris; sporulis elongato-fusoideis, rectis curvulisve, 7-9-septatis, $30 \approx 6$, luteolis, dein obscurioribus.

Hab. in ramulis Sambuci nigræ in Italia bor. — Var. Galiorum: sporulis 7-septatis, $30 \approx 5$, fuligineis. In Ital. bor. — Var. Saponariæ: sporulis 9-10-septatis, $40 \approx 5$, olivaceo-fuligineis. In Italia bor. — Var. Xylostei: sporulis 9-11-septatis, $45 \approx 4$, fuligineis. In Italia bor. — Var. Lychnidis dioicæ: sporulis 9-10-septatis, $45 \approx 4^{1}/_{2}$, fuligineis. In Italia bor. — Var. Lupuli: sporulis 9-11-septatis, $35 \approx 5$, aureo-fuligineis. In caulibus Humuli Lupuli in Gallia.

69. Hendersonia magna Cooke F. Texas p. 142. — Erumpens in li-2356 neas seriatas disposita; peritheciis atris, subglobosis, hinc illinc connatis, dothideoideis, irregulariter fisso-erumpentibus; sporulis cylindraceis, obtusis, 3-5-septatis, 60-65 ≈ 10 (α coloratis? n).

Hab. in caulibus herbaceis, Houston Texas. — An e sectione Sporocadi? An Stagonospora? An Hendersonula?

70. Hendersonia diversispora (Preuss) Sacc. Sporocadus diversispo- 2357 ra Pr. Fungi Hoyersw. n. 152. — Gregaria, immersa, suberumpens, minutissima, punctiformis; peritheciis atris, subconicis, perforatis; sporulis oblongis, subfusiformibus, 1-2-3-septatis, subfuscis, hilo notatis.

Hab. in caulibus siccis herbarum, præsertim Delphinii Ajacis, Hoverswerda.

71. Hendersonia circinans Sacc. Byssothecii circinantis pycnidium ²³⁵⁸ Fuck. Symb. p. 142. — Peritheciis in Rhizoctoniæ villo vel in hujus viciniis in cortice semiimmersis, globosis, atris, rugulosis, media magnitudine, subastomis; sporulis in sporophororum simplicium apicibus, oblongo-ovatis 3-septatis, 32 = 12, loculis 2 int. fusco-violaceis, extimis minoribus pallidioribus.

Hab. in radicibus cauleque inf. Medicaginis sativæ in Rhenogovia.

72. Hendersonia Lupini Cooke et Harkn. Grev. 1881, p. 84. — Sparsa, 2359 erumpens; peritheciis subglobosis, prominulis, atris, obtusis; sporulis anguste ellipticis, hyalinis, demum fuscis, triseptatis, 16-18 ≈ 3,5.

Hab. in Lupino in California.

73. Hendersonia anomala C. et Ell. in Grevillea. — Erumpens; pe-2360 ritheciis elongatis, atris; sporulis ellipticis, triseptatis, brunneis, cellulis ultimis hyalinis, quandoque divisis et constrictis, $20 \approx 10$.

Hab. in Tephrosia virginiana, New Jersey in Amer. bor.

— An Camarosporium?

74. Hendersonia Lirella Cooke in Grevillea et Præc. Hend. p. 20. — 2361 Sparsa, linearis, erumpens; sporulis late fusiformibus v. clavato-ellipticis, brunneis, triseptatis, 15-18 ≈ 8.

Hab. in caulibus Spirææ Ulmariæ in Britannia. — Habi-

tus Diaporthes Lirellæ.

- 75. Hendersonia microphylla Cooke in Grev. XII. p. 38. Perithe- 2362 ciis membranaceis, fuscis, globoso-compressis, sparsis, semiimmersis; sporulis cylindraceis obtusis, rectis, triseptatis, pallide fuscis, 15 = 3,5.
- Hab. in foliis Paronychiæ serpyllifoliæ, Luchon Galliæ. 76. Hendersonia ichthyospora Sacc. Mich. I. p. 124. Peritheciis 2363 gregariis epidermide velatis dein erumpentibus, globuloso-applanatis, $\frac{1}{3}-\frac{1}{4}$ mill. diam., breviter papillatis; contextu distincte celluloso fuligineo, solidiusculo; sporulis oblongis, $15-18 \approx 3^{1}/_{2}$, 3-septatis, non constrictis e hyalino dilute olivaceis in stipitem sensim attenuatis ideoque subpisciformibus, stipite filiformi 30-35 long., basi $\frac{3}{4}$ μ . crasso, hyalino.

Hab. in caulibus ramisque Umbelliferarum ad Börnicke prope Bernau in Marchia Brandenburg, 1872 (P. Magnus). — Sporulis fere pisciformibus a ceteris speciebus mihi notis facillime dignoscenda. — An Stagonospora?

77. Hendersonia Brunaudiana Sacc. et Roum. Rel. Lib. Ser. IV. n. 147. 2364 — Peritheciis dense gregariis, ½ mill. diam., subcarbonaceis; sporulis oblongo-fusoideis, utrinque obtusiusculis, leniter curvis, 3-septatis, leniter constrictis, 15-20 ≈ 5, dilute fuscis; loculis extimis subhyalinis; basidiis 8-11 μ. longis.

Hab. in caule Umbelliferarum majorum, sociâ Phoma herbarum in Arduennis (LIBERT).

78. Hendersonia Heraclei Sacc. Mich. I. p. 213. — Peritheciis spar- 2365 sis, subcutaneo-erumpentibus, globosis, majusculis papillatis, atris; sporulis cylindraceis, utrinque rotundatis, 20-22 ≥ 5, rectiusculis, initio 4-guttulatis, dein 3-septatis, non constrictis, olivaceo-lutescentibus.

Hab. in caulibus putrescentibus Heraclei Sphondylii, Selva in Ital. bor., socio Acrothecio caujium Sacc.

79. Hendersonia nobilis Dur. et Mont. Fl. Alg., I. p. 570 Mont. Syll. 2366 n. 941, nec B. et C. (quæ *Diplodiella*). — Caulicola; peritheciis sphæricis, caule atrato innatis tandem prominulis, ostiolo crasso

. Sphærioideæ, Phragmosporæ, Hendersonia.

433

instructis, intus ceraceo-albis; sporulis subsessilibus cylindricis rectis utrinque obtusis, triseptatis, fuscis, $30-40 \approx 6-8$.

Hab. in petiolis Magydarios tomentosæ Alger. (Durieu).

80. Hendersonia Solani Karst. Hedw. 1884, p. 19. — Peritheciis sub-2367 gregariis, per corticem erumpentibus, sphæroideis, ostiolo papillato, atris, mediocribus; sporulis oblongatis, utrinque obtusissimis, rectis vel flexuosis, 3-7, plerumque 3-septatis, ad septa non constrictis, dilute fuligineis, 12-22 \approx 4,5-6,5.

Hab. ad caules ramosque siccos Solani Dulcamaræ prope Aboa Fenniæ.

81. Hendersonia Dulcamaræ Sacc. Mich. I. p. 215. — Maculis are- 2368 scendo dealbatis, subcircularibus; peritheciis punctiformibus, paucis, lenticularibus, atris; sporulis cylindraceis, 14 ≈ 4, rectiusculis, 3-septatis, non constrictis, olivaceis.

Hab. in foliis Solani Dulcamaræ, Selva in Ital. bor.

82. Hendersonia Letendreana Sacc. I. p. 517. — Peritheciis globoso- 2369 depressis gregariis, subcutaneo-erumpentibus, 120-130 μ. diam., ostiolo impresso pertusis; contextu distincte celluloso, fulvo-fuligineo; sporulis cylindraceo-curvulis v. subclavulatis, utrinque præcipue apice obtusis, 25-30 ≈ 4, 3-4-septatis, non constrictis, melleis.

Hab. in caulibus Convolvuli (Pharbitis) culti, Rouen in Gallia (Letendre). — Affinis Hendersonice pulchellee Sacc. Michel. p. 213, a qua sporulis minoribus et parcius septatis differt. — β. muralis Sacc. Mich. II. p. 111: peritheciis quandoque confluentibus, et tunc minoribus nempe 70 μ. diam., depresso-globosis; sporulis 20-25 ≈ 2-3, cylindraceo-clavulatis, curvulis 3-septatis dilute olivaceis, tandem ad septum medium lenissime constrictis. In caulibus Parietariæ officinalis in Gallia (Βrunaud).

83. Hendersonia lagenaria Sacc. Mich. I. p. 212. — Peritheciis gre-2370 gariis, globulosis, majusculis, epidermide velatis, depresso-papillatis, hyphulis basi vestitis; sporulis oblongo-fusoideis, initio stipitellatis, continuis, hyalinis, dein 3- (raro 2-)septatis, 20-22 = 7, fuligineis; loculis extimis paullo pallidioribus.

Hab. in epicarpio putri Lagenaria vulgaria, Padova in Ital. bor. — Verisimiliter Sphæria mucosa Kickx Fl. Fland, I. p. 345 n. 48 (non Pers. nec Fuck.) huc spectat.

84. Hendersonia rupestris Sacc. et Sp. Mich. I. p. 215. — Maculis 2371 amphigenis subcircularibus sinuosisque, arescendo candidis, fulvo-elevato-marginatis; peritheciis lenticularibus, punctiformibus, 100-110 μ. diam., late pertusis; contextu tenui membranaceo, celluloso,

28

dilute fuligineo; sporulis oblongo-fusoideis, $17-22 \approx 4 \frac{1}{2}-6$, curvulis, 3-septatis, ad septum medium constrictis, dilute olivaceis.

Hab. in foliis Capparidis rupestris, Susegana in Italia boreali (Spegazzini).

85. Hendersonia martialis Speg. in Sacc. Mich. I. p. 484. — Peri- 2372 theciis lenticulari-conoideis, minutis, $120-150~\mu$. d., sparsis, subepidermicis, ostiolo papilliformi vix exerto; contextu parenchymatico-celluloso, fusco-olivaceo; sporulis oblongo-ellipticis utrinque obtusiusculis, 2-3-septatis, ad septa plus minusve constrictis, pallide olivaceis, $12-18 \approx 5-6$.

 $\it Hab.$ ad caules emortuos Statices Limonii in Campo Martis Venezia Ital. bor.

86. Hendersonia Polygoni Rabh. in Bot. Zeit. 1851, p. 455. — Erum-2373 pens; peritheciis pertusis; nucleo diffluente; sporulis cylindraceis v. clavatis 3-4-septatis, pedicellatis, olivaceis.

. Hab. in caulibus Polygonorum, Trieste in Istria (BIA-SOLETTO).

87. Hendersonia peruviana Speg. F. Arg. Pug. IV. n. 304. — Peri-2374 theciis epidermide velatis, lenticulari-depressis, 180-200 μ . d., sub-collabascentibus, ostiolo minuto papilliformi pertusis, atris, membranaceis, contextu atro-fuligineo, subopaco; sporulis cylindraceo-ellipticis, utrinque obtuse rotundatis, 5-septatis, ad septa constrictis 25 × 7, intense fuligineis.

Hab. in caulibus dejectis emortuis Salicorniæ peruvianæ ad ripas lacunarum australium «las Saladas Grandes» dictas in Argentina. — An status stylosporicus Pleosporæ Salsolæ Fuck.?

88. Hendersonia Lupuli Moug. et Lév. in Ann. Sc. nat. 1846, p. 289. 2375 — Peritheciis confertis erumpentibus globosis nigris; ostiolis papillatis, demum deciduis; sporulis elongatis fusiformibus, 3-4-septatis plerumque curvatis, basidiis longiusculis suffultis.

Hab. in sarmentis Humuli Lupuli, Bruyères in Vogesis, in Gallia. — An huc spectet Hendersonia Humuli Fr. S. Veg. Scand. p. 416, me latet.

D) In Monocotyledoneis et Acotyledoneis.

89. Hendersonia Sabaleos Ces. Hedw. 1882, pag. 10, Rabenh. F. E. 2376 n. 2661. — Peritheciis epidermide, quam stellatim findunt, obtectis, punctiformibus, contextu granuloso; sporulis cylindraceis 3-septatis, utrinque obtusissimis, 12-16 = 5.

Hab. in lamina exsiccata foliorum Sabal Adansonii, Napoli in Ital merid. (Сезаті). — An Stagonospora?

90. Hendersonia Sparganii Niessl, Vorarbeiten Crypt. Mähren und 2377 Esterr. Schlesien p. 34. — Peritheciis minutis, sparsis, hemisphæricis, atris, prominulo-innatis, papillatis; sporulis cylindricis, rectis vel curvatis, utrinque obtusiusculis, 3-septatis, 19 = 3.

Hab. in foliis siccis Sparganii ramosi, Brünn in Moravia.An Stagonospora?

91. Hendersonia Typhæ Oud. Mater. Flora mycol. de la Neerlande 2378 II. p. 19. — Peritheciis nigris, centro poro pertusis; sporulis e facie interiore peritheciorum prodeuntibus erectis, fuscis, fusiformibus, una extremitate obtusa, altera (inferiore) acutata, 6-locularibus, 50 = 7.

Hab. in caulibus Typhæ angustifoliæ, Achttienhoven in Neerlandia.

92. Hendersonia Gladioli Brunaud, in Roumeg. Revue Mycolog. — 2379 Peritheciis innatis vel erumpentibus, nigris, globulosis, depressis; sporulis luteis, cylindricis vel cylindraceo-fusiformibus, elongatis, 10-12-septatis, 45-50 = 2-3, guttulatis.

Hab. in caulibus emortuis Gladioli culti, Saintes in Gallia.
93. Hendersonia Fourcroyæ Thum. Contr. Myc. Lusit. n. 346. — Peri-2380 theciis amphigenis, sparsis vel subgregariis, emersis, lenticularibus, aterrimis in foliorum partibus expallescentibus; sporulis cylindri-co-ellipsoideis, utrinque rotundatis, quadriseptatis, rectis, fuscis, 10 = 6; basidiis hyalinis, rectis brevibus.

Hab. in foliis aridis Fourcroyæ giganteæ, Coimbra in Lusitania.

94. Hendersonia Yuccæ Kickx Fl. cr. Flandr. t. I. p. 390. — Peri- 2381 theciis punctiformibus, nigris, sparsis, immersis, globulosis, poro pertusis, tectis, maculas minutas nigras formantibus; sporulis oblongis ellipticis, obtusis, initio hyalinis dein brunneis, 3-septatis.

Hab. in foliis Yuccæ gloriosæ et filamentosæ in Gallia et Belgio. — Hendersoniæ puræ Sacc. affinis videtur.

95. Hendersonia pura Sacc. Mich. I. p. 211. — Peritheciis remote 2382 gregariis subcutaneis, globoso-depressis, papillulatis atris; sporulis ovato-oblongis, initio stipitellatis, continuis, hyalinis, dein 2-(raro 3-)septatis, 16-18 = 7, loculis extimis subhyalinis, medio v. mediis fuligineis, ad septa vix constrictis.

Hab. in caule putrescente Lilii candidi, Selva in Ital. bor. 96. Hendersonia Xerophylli Ellis Bull. Torr. bot. Club. 1882, p. 74. 2383 — Peritheciis oblongis, epidermide elevata, nigrificata et longitrorsum fissa tectis; sporulis oblongis, obtusis, pallide brunneis, 1-3-septatis, septo ultimo plerumque dein evanescente.

Hab. in foliis Xerophylli asphodeloidis in Amer. bor.

97. Hendersonia ruscicola (Rabenh.) Sacc. Sporocadus ruscicola 2384
Rabh. Hedw. 1852, p. 287. — Peritheciis; sporulis rectis,
cylindraceis vel fusiformibus, triseptatis, brevipedicellatis, fuscis;
pedicello hyalino.

Hab. in ramis v. cladodiis Rusci in Germania:

98. Hendersonia sessilis Mont. Cent. VI. n. 31, I. c., pag. 44. Syll. 2385 n. 936. — Peritheciis seriatis minutis sphæricis, e rimis culmorum erumpentibus, punctiformibus atris, poro pertusis; sporulis oblongis obtusis vel utroque fine interdum attenuatis triseptatis, subsessilibus, tandem fuscidulis, 10 = 3.

Hab. ad culmos exsiccatos Scirpi Holoschæni in Gallia australi (Castagne). — An Stagonospora?

99. Hendersonia riparia Sacc. Mich. I. p. 124. — Pertuneciis gregaziis, tectis, globoso-lenticularibus, punctiformibus, 80-100 μ . diam., pertusis, contextu celluloso laxiusculo, ochraceo-fuligineo; sporulis cylindraceis, $40-45 \approx 3$ ½-4, curvulis, utrinque obtuse leniter attenuatis, 6-7-septatis, sæpius 7-8-guttulatis, flavidis, basidiis fasciculatis filiformibus, sursum attenuatis, $20-30 \approx 2-3$, hyalinis fultis.

Hab. in foliis, præcipue ad paginam infer. Caricis ripariæ ad Finkenkrug prope Spandau in Marchia Brandenburg (P. Maenus). — Peraffinis videtur Stagonosporæ macropodi, a qua sporulis distincte 6-7-septatis (nec tantum 3-6-guttulatis) flavidisque differt.

100. Hendersonia commutata Sacc. Hendersonia etegans Sacc. Myc. 2287
Ven. Spec. p. 199, nec Berk. (quæ Stagonospora). — Peritheciis innato-erumpentibus, globuloso-papillatis, nigris, subsparsis; sporulis elongato-fusoideis, majusculis, 10-12-septatis, fuligineis.

Hab. in culmis Zeæ Maydis, Padova in Italia boreali.

101. Hendersonia eustoma Sacc. Fungi ven. II. p. 319. — Peritheciis 2388 sparsis, erumpenti-superficialibus, minutis; sporulis elongato-fusoideis, curvulis, 30 = 3, 3-septatis, lutescentibus.

Hab. in culmis pedunculisve Sorghi vulgaris, Treviso in Ital. bor. — Pycnidium Leptosphæriæ eustomæ.

102. Hendersonia arundinacea (Desm.) Sacc. Mich. I. p. 211. Sphæ-2389 ria arundinacea Desm. Obser. sur le Sph. arund. et Godini 1846, p. 46. — Peritheciis seriatis, compressiusculis, erumpenti-

bus; sporulis fusoideis rectis curvulisve, $28-30 \times 3^{1}/_{2}$, fuligineo-olivaceis 3-5-septatis.

Hab. in culmis Phragmitis communis in Gallia.

103. Hendersonia minutissima Sacc. Hendersonia microscopica Niessl. 2390 Hedw. 1878, pag. 176, nec Fr. — Peritheciis minutissimis, sparsis; sporulis clavato-fusiformibus, lutescentibus, 4-5-nucleolatis, 9-11 ≥ 2.

Hab. in Apluda mutica in India orient.

104 Hendersonia culmicola Sacc. Mich. I. p. 210. H. subseriata Sacc. 2391 F. Ven. Ser. V. p. 207, nec Desm. — Peritheciis minutis, globoso-papillatis, nigris, innato-erumpentibus, sæpius seriatis; sporulis cylindraceis, 28-32 ≈ 4, 4-5-septatis flavis.

Hab. in vaginis Brachypodii pinnati et in culmis graminum minorum, Padova in Ital. bor., in Gallia. — Var. β. intermedia Sacc. F. Ven. Ser. II. p. 322: sporulis cylindraceis, curvulis, 5-septatis, utrinque rotundatis, 25 ≈ 3, flavidis. — Var. γ. minor Sacc. 1. c.: sporulis ut præcedentis sed plerumque 3-septatis. — Utraque varietas in culmis variis minoribus in Italia boreali.

105. Hendersonia culmiseda Sacc. Hend. culmicola Cooke Præcur- 2392 sor Monogr. Hendersoniæ p. 23, nec Sacc. — Peritheciis.....; sporulis breviter lanceolatis, triseptatis, fuscis, 15 ≈ 5.

Hab. ad Ammophilam et Phragmitem in Britannia (?).

106. Hendersonia Phragmitis Desm. 22 Not. p. 12. — Peritheciis in- 2393 natis, minutissimis, 170 μ . diam., numerosis, sparsis, globosis, nigris, epidermide tectis; ostiolis erumpentibus, papillatis halone brunnea cinctis, demum deciduis; sporulis ovoideo-oblongis, $15-20 \approx 7$, 3-septatis, fuscis.

Hab. in vaginis vetustis Phragmitis communis in Gallia. 107. Hendersonia Fuckelii Sacc. Pleosporæ (Leptosphæriæ) arundi-2394 naceæ pycnidium Fuck. Symb. p. 137. — Peritheciis innato-erumpentibus, sæpe cæspitulosis, papillatis; sporulis fusiformibus, curvatis, 3-4-septatis, 4-6-guttatis, 26-56 = 6, flavidis.

Hab. in culmis Phragmitis communis in Rhenogovia.

108. Hendersonia Arundinis Lib. in Roumeg. Revue Mycolog. (sub 2395 Sporocado) — Peritheciis immersis, sparsis, minutissimis, globosis, nigris, basi villosis, ostiolo punctiformi; sporulis oblongis, atris, 1-3-septatis, cirrose erumpentibus.

Hab. in culmis siccis Phragmitis communis prope Malmedy in Arduennis (LIBERT). — Hendersonia neglecta West., quam

Sphærioideæ, Phragmosporæ, Hendersonia.

Cooke in Grev. 1880, p. 83 huc ducit, diversa videtur et ob perithecia calva et ob sporulas hyalinas.

109. Hendersonia rimosa Lév. in Ann. Sc. Nat. 1846, p. 289. — Pe- 2396 ritheciis sparsis, innatis, elongatis, compressis, nigris, epidermide fissa tectis; sporulis cylindricis, obtusis, 4-septatis («coloratis?»).

Hab. in culmis vetustis Phragmitis communis, Males-

herbes in Gallia. — An Stagonospora?

110. Hendersonia graminicola Lév. Ann. Sc. Nat. 1846, V. 288. — 2397 Peritheciis gregariis, minutis, innatis, globosis, intus nigris, apice pertusis; sporulis elongatis, 2-3 septatis, fuscis, 22 = 5.

Hab, in foliis Arundinis Epigejos, Paris in Gallia, Phragmitis communis, Treviso in Ital. bor. et Neuchatel in Helvetia.

111. Hendersonia vaginæ (Rabenh.) Kalchbr. Szepesi Gomb. p. 268, 2398 tab. II, f. 6. Sphæropsis vaginæ Rabenh. Bot. Zeit. 1858, p. 303. - Peritheciis minutis, punctiformibus, subinnatis, vertice subprominulis, sparsis; sporulis acrogenis, pedicello longo, filiformi thalamio affixis, quadrilocularibus, ad dissepimenta paullulum constrictis, sublunulatis, utrinque acutiusculis, hyalinis, demum fuscis.

Hab. in vaginis Phragmitis communis in Germania et

Hungaria.

112. Hendersonia crastophila Sacc. Mich. I. p. 211. — Peritheciis 2309 sparsis innato-erumpentibus, globulosis, papillatis, atris; sporulis bacillari-fusoideis, utrinque rotundatis, $35 \approx 5^{1}/_{2}$, 7-8-septatis, eguttulatis, fuligineis.

Hab. in culmis Phragmitis communis in Ital. bor. — Var. β . Cynodontis Dactyli: sporulis similibus, $35 \approx 4$. — In ejusdem culmo in Italia bor. — *H. juncicola Sacc. Mich. II. p. 112. A typo præcipue differt sporulis angustioribus, nempe, $30-35 \approx 3^{1}/_{2}$, sed pariter 7-septatis, flavidis; peritheciis erumpentibus, globoso-depressis, vix papillatis, nigris, 1/8 mill. diam. — In calamis Junci effusi, Saintes in Gallia (Brunaud).

113. Hendersonia donacina Mont. in Cast. Suppl. p. 61 et Syll. n. 2400 942. — Epiphylla; peritheciis minutissimis sphæricis in folio decoloranti-griseo gregariis, poro pertusis; sporulis fusiformibus rectis aut incurviusculis septis 7 transversis divisis (« coloratis ? »).

Hab. in foliis Arundinis Donacis apud Montaud-lez-Miramas Galliæ (Castagne). — An Stagonospora?

114. Hendersonia Donacis Sacc. Mich. I. p. 211. — Peritheciis in- 2401 nato-erumpentibus, remote gregariis e globoso longitudinaliter compressis, ostiolo brevissimo, obtuso; contextu minute parenchyma-

tico fuligineo; sporulis cylindraceis utrinque obtuse rotundatis, $15-18 \approx 5$, 3-septatis, ad septa vix constrictis, fuligineis.

Hab. in culmis emortuis Arundinis Donacis, Padova in Ital. bor., socio Lophiostomate hygrophilo Sacc., quocum forte metagenetice connexa est. Cum Hend. donacina Mont. non comparanda.

115. Hendersonia Castagnei Mont. Cent. VI. n. 33, l. c., p. 45 et 2402 Syll. n. 937 Sphæria Milii-multiflori Cast. Catal. p. 173. — Peritheciis immersis globoso-depressis minimis longitrorsum seriatis tectis, tandem denudatis opacis, ostiolo prominulo perforato; sporulis fusiformibus triseptatis fuscidulis pedicellatis, ad centrum versis, 15 = 5.

Hab. in culmis Milii multiflori in Gallia australi (Castagne).

116. Hendersonia effusa B. et C. North Americ. Fungi n. 426bis. — 2403 Peritheciis in maculas angustas elongatas congestis; sporulis oblongis leviter curvis triseptatis, 12-15 µ. longis («coloratis?»).

Hab. in culmis Aristidæ strictæ in Carolina super. — An Stagonospora?

117. Hendersonia atramentaria Schröt. Hedw. 1878, p. 173. — Pe- 2404 ritheciis globulosis, circ. 150 μ . diam., immersis, ostiolis erumpentibus prominulis, pseudo-stromate nigricante elliptico v. elongato, irregulari 1-3 mill. long. 1-2 lat. exceptis; sporulis lanceolatis v. ovato-fusoideis, 14-18 \approx 4,5-5,5, fusco-olivaceis, 3-6-nucleatis (an tandem septatis?); basidiis bacillaribus 60 μ . longis, hyalinis.

Hab. in foliis Glyceriæ aquaticæ et G. fluitantis in Germania.

118. Hendersonia dispar Mont. in Cast. Suppl. p. 63 et Syll. n. 943 2405 — Epiphylla, gregaria; peritheciis minutis, epidermide tectis, sphæricis, prominulis, ostiolo annulari instructis; sporulis oblongis magnis, fuscis, triseptatis seu 4-locularibus, quovis loculo guttulam globosam fovente.

Hab. in foliis Tritici gracilis in Gallia (CASTAGNE).

119. Hendersonia microsticta Berk. in Crypt. Antarct. p. 58 (Dia-2406 gnosis nunc mihi desideratur).

Hab. in caule dealbato Chrysobactri Rossii in regione Antarctica.

120. Hendersonia lichenicola (Corda) Fr. S. V. S. p. 416 Kickx t. I. 2407
p. 391. Sporocadus lichenicola Corda Ic. III. p. 23, f. 65. Sporocadus rosicola Rabenh. Bot. Zeit. 1848, p. 294. — Peritheciis

sparsis, tectis, nigris, levigatis, globulosis dein depressis, minutis, poro pertusis; sporulis oblongis fusoideis, 3-septatis, constrictis, fuscis; basidiis sporulam superantibus, bacillaribus hyalinis.

Hab. in apotheciis Lecideæ luteolæ, Gand in Belgio, et in ramis Rosæ caninæ, lichene affectis, in Bohemia.

II. Sporocadus Sacc. (nec Cordæ). Perithecia majuscula, typice tecta; sporulæ amplæ:

121. Hendersonia Carpini Sacc. Massariæ Carpini pycnidium Fuck. 2408 Symb. p. 153. — Sparsa, gregaria, sub corticis epidermide nidulans; peritheciis orbicularibus, 1 mill. diam., depressis, villo olivaceo obsitis, vero antice glabris, atro-fuscis perforatisque; sporulis oblongis, utriaque obtusis vel basi oblique recteve apiculatis stipitatisve, 1-7-locularibus, septis obscuris, aureo-flevis, 52 = 14.

Hab. in ramis siccis corticatis Carpini Betuli in Rhenogovia.

122. Hendersonia carpinicola Sacc. Massariæ carpinicolæ pycni- 2409 dium Fuck. Symb. p. 152. — Peritheciis subcutaneis, gregariis, globoso-depressis; sporulis oblongo-ovatis, utrinque subapiculatis attenuatisve, stipitatis, distincte 4-5-septatis, fuscis, 40 = 16.

Hab. in ramis corticatis Carpini Betulii in Rhenogovia.

123. Hendersonia loricata Sacc. et Roum. in Mich. II. pag. 629. — 2410 Peritheciis gregariis innato-erumpentibus, corticolis globulosis, pertusis, \(^1/_3-^1/_2\) mill. diam.; contextu minute parenchymatico fuligineo; sporulis ovoideo-obpiriformibus, 22-28 = 15-16, apice rotundatis, 2-3-septatis, non constrictis, fuligineis initioque guttulatis, basidiis filiformibus, 10-15 = 2, hyalinis suffultis.

Hab. in ramis corticatis fagineis, Saintes in Gallia (Bru-NAUD). — Probabiliter pycnidium Massariæ loricatæ Tul.

124. Hendersonia Desmazieri Mont. Cent. VI. n. 92, l. c. XII. p. 310 2411 (1848-49) Stagonosporium Platani Preuss (1853) Hendersonia Platani Peck (serius). — Peritheciis immersis cortice semper tectis adhærentibusque, crassis, globoso-depressis, confluentibus, atris, intus griseis, initio papillatis, tandem poro centrali pertusis; sporulis obovatis tandem brunneis, 40-45 ≈ 20, 4-nucleatis, 3-septatis, basidiis brevibus oblongis conoideisve hyalinis fultis, denique erumpendo atro-inquinantibus.

Hab. in ramis corticatis Platani orientalis et occidentalis in Gallia, Italia bor., Germania, America septentr. — Pycnidium Massariæ Platani Ces.

125. Hendersonia ulmicola Cooke Præcurs. Monogr. Henders. p. 24. 2412



— Peritheciis majusculis, tectis, obtusis; sporulis ellipticis, triseptatis, constrictis, brunneis, $50 \approx 20$.

Hab. ad ramulos Ulmi in consortio Massariæ fædantis, cujus forte pycnidium, in Britannia.

126. Hendersonia epileuca C. et Ellis in herb. et Præcursor Monogr. 2413 Henders. p. 24. — Peritheciis majusculis, tectis, obtusis, atris; sporulis late lanceolatis, 5-septatis, brunneis, 80 ≈ 20-22.

Hab. ad ramulos Mori in consortio Massariæ epileucæ, cujus probabiliter pycnidium, in America boreali.

127. Hendersonia polycystis B. et Br. Ann. N. H. n. 415. — Peri- 2414 theciis globosis, floccis cinereis dense tectis; sporulis latis oblongo-ellipticis, plurilocularibus, gelatina involutis, basidiis septatis suffultis.

Hab. in ramulis siccis Betulæ in Britannia. — Pycnidium Pseudovalsæ lanciformis.

128. Hendersonia magnata B. et Cooke in Berk. herb. Cooke Præ- 2415 cursor Monogr. Henders. p. 24. — Peritheciis.....; sporulis elongato-ellipticis, multinucleatis, dein 5-septatis, brunneis, 40-45 = 13.

Hab. ad ramulos decorticatos in Hungaria.

III. Hendersoniella Sacc. Perithecia epixyla subsuperficialia.

129. Hendersonia quercina Sacc. Mich. I. p. 213. — Peritheciis li-2416 gno immersis, globulosis, atris; sporulis cylindraceo-oblongis, utrinque rotundatis, 16-18 \times 3\frac{1}{2}-4, rectis v. leniter curvis, initio continuis guttulatis, dein 3-septatis, non constrictis, olivaceo-fuscis, denique e perithecio expulsis lignumque olivaceo-fœdantibus.

Hab. in ligno putrescente quercino, Selva in Ital. bor. rarius. 130. Hendersonia trabicola Sacc. Teichosporæ trabicolæ Fuck. py-2417 cnidium Fuck. Symb. p. 161. — Peritheciis gregariis, erumpentibus, globosis, majusculis, obtusis, nigris, ostiolo obsoleto; sporulis oblongis, utrinque obtusis, quandoque curvatis, triseptatis, fuscis, $14 \approx 4$.

Hab. in asseribus Quercus in Rhenogovia.

131. Hendersonia eximia B. et C. North Americ. Fungi n. 424. — 2418 Peritheciis congestis seriatis; sporulis utrinque obtusis biseptatis, 25-30 = 10-11.

Hab. in ligno denudato et superficie albo-maculato Caryæ in Carolina inf. — An Stagonospora? — Sporulæ rarius tantum 1-septatæ.

132. Hendersonia? constricta B. et Br. F. of Ceyl. n. 795. — Pe- 2419 ritheciis subglobosis pruinatis, basi floccis radiantibus suffultis; sporulis metulæformibus uniseptatis, medio constrictis 22 μ. longis.

Hab. in ligno emortuo in insula Ceylon. — An Diplodiella?

an Stagonospora?

133. Hendersonia lignicola (Pr.) Sacc. Sporocadus lignicola Pr. F. 2420 Hoyersw. in Linnæa 1852, p. 78. — Punctiformis, basi lignum penetrante, atra; peritheciis semiimmersis obtusis, ostiolo perforato; sporulis oblongis didymis rarius tridymis, fuscis.

Hab. in ligno excorticato Mali, Hoyerswerda. — «An Di-

plodiella?»

COUTUREA Cast. Cat. Pl. Mars. p. 192, Desm. 13 Not. p. 65. (Etym. a botan. gall. Couture?). — Perithecia superficialia, globosa, atra, membranacea, areolato-contexta, astoma, irregulariter rupta, hyphis stromaticis stellatim repentibus, ramosis, gonidioideis basi cincta. Sporulæ ovato-oblongæ, 1-3-septatæ, olivaceo-brunneæ. — Videretur quasi Meliola ascis carens.

Couturea Castagnel Desm. l. c. C. elæanema et C. Rosmarini 2421
 Cast. l. c. — Peritheciis sparsis, minutissimis, nigris, 60-70 μ. d.; sporulis numerosis, ovoideo-oblongis, utrinque obtusis, olivaceo-brunneis, 2-3-septatis, rarius 1-septatis, 10-14 μ. longis.

Hab. in pag. inf. foliorum vivorum vel languescentium Oleæ et Rosmarini in Gallia et. Italia. — Forma in Rosmarino præbet sporulas plerumque 3-septatas.

ANGIOPOMA Lév. Ann. Sc. Nat. 1841, p. 235. (Ltym. angeion vas, et poma operculum). — Perithecia membranaceo-subcornea, cyathiformia, ore circulari dehiscentia, epiphragmate pallido fugaci, tecta. Sporulæ fusoideæ, 4-6-septatæ, fuscæ, hyalino-stipitatæ.

1. Angiopoma campanulatum Lèv. l. c. — Peritheciis gregariis obco- 2422 nico-elongatis, atris, hirtis, 3-4 mill. altis; sporulis fasciculatis, rectis curvulisve, apice obtusis, medio inflatis, 5-6-septatis, brunneis; basidiis cylindricis, continuis, hyalinis, sporulam æquantibus.

Hab. ad semina Bromi sterilis, Versailles in Gallia.

LICHENOPSIS Schw. Syn. North Amer. Fungi p. 308, n. 3098, tab. XIX. fig. 6. (Etym. lichen, cujus habitum subinde refert), Phæobolus Fr. Summa Veg. Scand. p. 416. — Perithecia immersa, circumscissa, operculo deciduo tecta, nucleo libero demum sicce re-

Sphærioideæ, Phragmosporæ, Cryptostictis.

443

jecto, cupulam vacuam relinquentia. Sporulæ ellipsoideo-oblongæ, septatæ, fuscæ, basidiis bacillaribus hyalinis, septatis suffultæ.

Lichenopsis sphæroboloidea Schw. l. c. — Peritheciis ligno vel 2423
cortice immersis, 2 mill. diam., intus tapetio pallide luteo subcarnoso vestitis, extus pallidis, per crustam albescentem subdeterminate effusam (propriam?) erumpentibus; basidiis sporula (ex icone) 6-8-plo longioribus.

Hab. in ligno et cortice ramorum Corni floridæ et Celtidis, Bethlehem in America bor. — Maculas lichenosas (unde nomen) 5 cent. latas format.

- CRYPTOSTICTIS Fuck. in Fung. Rhen. n. 1838 (Etym. cryptos absconditus, et Stictis), Dochmolopha Cooke Præc. Henders. p. 25.
 Perithecia erumpentia, globosa vel depressa, pertusa, subinde spuria. Sporulæ oblongæ 2-pluriseptatæ, utrinque 1-aristatæ, fuscæ, longiuscule hyalino-stipitatæ. Est fere Hendersonia sed sporulis ciliatis.
- Cryptostictis Cynosbati (Fuck.) Sacc. Hendersonia Cynosbati Fuck. 2424
 Symb. p. 392, tab. IV. fig. 23. Peritheciis spuriis hemisphæricis, atris, tectis, demum erumpentibus; sporulis pedicellatis oblongis, utrinque parum attenuatis vel rotundato-obtusis, curvatis, 3-septatis, pallide flavis, 14-15 ≈ 5-6, utrinque sub apice ciliis sporulâ sublongioribus.

Hab. in fructibus siccis adhuc stantibus Rosæ pimpinellifoliæ vel spinosissimæ in Rhenogovia et Bavaria.

2. Cryptostictis hysterioides Fuck. F. Rhen. n. 1838, Hendersonia 2425. hysterioides Fuck. Symb. p. 392, t. IV. f. 24. — Peritheciis spuriis gregariis, innatis, ellipticis, lineam longis, atris, parallele dispositis, demum rima oblongo-lineari dehiscentibus, disco carnoso, excavato; sporulis pedicellatis, ovatis, subinæquilateralibus, utrinque attenuatis,antice plerumque obtusioribus, 3-septatis, rarius 1-2-septatis, flavis, loculis 2 ultimis pallidioribus, utrinque in latere ciliis sporulam æquantibus, 16 = 7 (sine ciliis).

Hab. in sarmentis corticatis siccis Vitis viniferæ prope Budenheim Rhenogoviæ.

3. Cryptostictis ilicina Sacc. M. V. n. 327 et F. Ven. Ser. V. p. 198 2426 (sub Pestalozzia). — Maculis exaridis, albidis, angulosis; pseudoperitheciis lentiformibus, membranaceis, astomis, erumpentibus; sporulis ovoideis, $15 \approx 7$, 5-locularibus, loculis extimis oblique 1-aristatis, hyalinis, ceteris fuligineis stipite filiformi, $30 \approx 1\frac{3}{4}$, hyalino.



Sphærioideæ, Phragmosporæ, Prosthemium.

444

Hab, in foliis languidis Quercus Ilicis, Arco (Trentino) in Italia boreali.

4. Cryptostictis Mariæ (Clinton) Sacc. Pestalozzia Mariæ Clinton in 2427 Peck Rep. on the St. Mus. N. Y. t. 2, f. 1-2. - Maculis aridis, brunneis vel cinerescentibus, brunneo-marginatis; pustulis (peritheciis) minutis, sparsis, erumpentibus, nigris, cuticula stellatim rupta cinctis; sporulis fusiformibus, 5-septatis, loculis 4 intermediis fuligineis, loculis extimis hyalinis aristatisque, 17-25 μ. long. (sine aristis).

Hab. in foliis Rhododendri maximi, Buffalo et Forestburgh in America bor.

5. Cryptostictis Loniceræ (Thum.) Sacc., Hendersonia Loniceræ 2428 Thum. M. U. n. 578, nec Fr., D chmolopha Loniceræ Cooke Præc. Hend. p. 25. - Peritheciis innato-erumpentibus, globosodepressis, spuriis, nigris, haud papillatis, seriatis; sporulis brevefusoideis, 3-septatis, 12-15 \(\preceq 4\) (sine ciliis), loculis interioribus olivaceis, extimis hyalinis oblique 1-aristatis, aristis hyalinis, 10-15 ≈1; pedicellis filiformibus, sæpe ramosis, prælongis 30-40 μ. longis, hyalinis.

Hab. in ramulis corticatis Loniceræ tataricæ, Bayreuth in Bavaria. - Diagnosim ex ipsis exemplaribus Thümenianis concinnavi. - Nuclei definiti globosi, sed membrana perithecii imperfecta.

6. Cryptostictis caudata (Preuss) Sacc. Sporocadus caudata Preuss 2429 Hoyersw. n. 153. - Erumpens; peritheciis exiguis; ostiolis perforatis, tum reclusis, discoideis, angulatis vel oblongis depressis, atris; basidiis pedicelliformibus, albis, simplicibus continuis; paraphysibus intermixtis; sporulis dilute fuscis, subclavatis, diaphanis, transverse septatis, apiculis et basibus albis, in apiculo longo filo ornatis.

Hab. in ramis dejectis Rosæ, in hortis, Hoyerswerda.

PROSTHEMIUM Kunze Myk. Heft I. p. 17, t. I., f. 10. (Etym. prosthema appendix). - Perithecia tecta, carbonacea, globoso-depressa, atra. Sporulæ teretiusculæ, pluriseptatæ, in capitula stellatim conjunctæ, coloratæ. Basidia obsoleta vel filiformia.

1. Prosthemium betulinum Kunze Myk. Heft I. p. 17. t. I., f. 10. - 2430 Peritheciis subsolitariis, lenticularibus, cortice nidulantibus, poro pertusis; sporulis obclavatis, 40-50 = 15, 2-4, basi stellatim coalitis, dilute fuligineis, 3-4-septato-nucleatis, nucleis pallidis; hyphulis

filiformibus, 6-7 μ . cr., guttulatis basi ornatis, media longiori, pedunculari; paraphysibus subinde intermixtis.

Hab. in ramis corticatis Betulæ albæ in Gallia, Germania, Britannia, Italia. — Pycnidium Massariæ sipariæ.

Prosthemium stellare Riess, in Bot. Zeit. 1853, pag. 130, tab. III, 2431 fig. 28-31. — Peritheciis sublentiformibus, nigris, poro pertusis, tectis; sporulis tereti-obclavatis, 3-4-septatis, fuligineis apice pallidioribus, 12-20, basi stellatim coalitis, demum cirrose propulsis, 26-28 μ. longis.

Hab. in ramis corticatis Alni glutinosæ in Germania et Britannia.

- HENDERSONULA Speg. Fungi Arg. Pug. II. n. 127. (Etym. ab Hendersonia, cujus sporùlas refert). Stromata innata vel erumpentia atra, ostiolis punctiformibus non vel vix notata, orbicularia vel difformia intus locellos pallidiores sporuliferos gerentia. Sporulæ ellipticæ, pluriseptatæ, coloratæ, typice stipitatæ. Est quasi Hendersonia stromate dothideaceo ornata.
- 1. Hendersonula australis Speg. F. Arg. Pug. II. n. 127. Stro- 2432 matibus orbicularibus vel confluendo difformibus, dense sparsis, epiphyllis, maculis nullis insitis, levibus vel rugulosis, atris, 1/2-11/2 mill. d.; loculis dothideaceis, constipatis, primo albis dein olivaceis, minutis, 80-90 μ . d.; sporulis ellipticis vel fasoideis, utrinque plus vel minus rotundatis, 2-3-septatis, ad septa constrictis, dilute olivaceis, $14-20 \approx 4-5$.

Hab. ad folia viva Solani boerhaviæfolii in sepibus del Riachuelo in Argentina. — Sporulæ protrusæ stromata pulvere olivaceo obducunt.

2. Hendersonula morbosa Sacc. Cfr. Farlow Black Knot p. 440, t. V. 2433 f. 4-5. — Stromate maximo globoso-colliculoso, confluendo elongato, erumpenti-superficiali, extus atro et ob perithecia prominula inæqualiter papilloso; peritheciis seu loculis globosis, intus pallidioribus; sporulis ellipsoideis, utrinque rotundatis, 3-septatis, non constrictis, 12 ≈ 6, dilute flavidis; basidiis filiformibus sporula duplo vel triplo longioribus.

Hab. in ramis adhuc vivis Prunorum variorum in America boreali. — Sistit pycnidium Plowrightiæ morbosæ. Cfr. Syll. II. p. 638.

STAGONOSPORA Sacc. ut subg. Hendersoniæ, Mich. II. p. 8. (Etym. stagon gutta, et spora). Hendersoniæ sectio Sphærospora Desm.

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p. p. 17 Not. p. 16. — Perithecia innata vel erumpentia, globosa, sæpius papillato-pertusa, atra, membranacea vel subcarbonacea. Sporulæ ellipsoideæ vel elongatæ, typice 2-pluriseptatæ guttulatæque hyalinæ, rarius tantum 2-pluriguttatæ, nec distincte (ob immaturitatem?) septatæ. — Est Hendersonia hyalophragmia.

1. In Dicotyledoneis.

Stagonospora innumerabilis Fuck. Symb. p. 116 (Psilothecium). — 2434
Peritheciis densissime effuso-gregariis, subcutaneis, punctiformibus,
fusco-nigris; sporulis cylindraceo-fusoideis, curvis, 6-7-septatis, hyalinis, 44 = 4.

Hab. in alis caulis Cytisi sagittalis, socio st. ascophoro seu Anthostomella Cytisi, prope Estrich Rhenogoviæ. — «Ad

Septoriam vergere videtur».

2. Stagonospora hortensis Sacc. et Malbr. Mich. II. p. 629. — Pe- 2435 ritheciis gregariis, epidermide velatis, globoso-lenticularibus, ¼ mill. diam., tenui-membranaceis, latiuscule pertusis; sporulis cylindraceo-oblongis, leniter curvulis, utrinque rotundatis, 4-guttulatis, denique 3-septatis, haud constrictis, 18-22 ≈ 7, hyalinis.

Hab. in caulibus Phaseolorum in cultis prope Rouen Galliæ (MALBRANCHE). — Stagonospora Malbrancheana Mich. II. p. 629, speciminibus perfectioribus observatis, ascos præbuit, et revera ad

Metasphæriam lejostegam verisimiliter spectat.

3. Stagonospora Mespili (West.) Sacc. Hendersonia Mespili West. 2436 Bull. ac. roy. belg. II. ser. t. 12. n. 7. — Maculis epiphyllis, sparsis vel confluentibus, rotundatis irregularibusve, brunneis, centro pallescentibus; peritheciis paucis, minutis, nigris, sparsis; sporulis hyalinis, ovalibus, piriformibus, 3-septatis.

Hab. in foliis Mespili in Belgio.

4. Stagonospora prominula (B. et C.) Sacc. Hendersonia prominula 2437 B. et C. North Amer. Fungi n. 429. — Peritheciis sparsis punctiformibus, prominulis; sporulis hyalinis, breviter clavatis, triseptatis, $10^3/_4$ -18 μ . longis, subinde curvulis.

Hab. in foliis Piri Mali in Carolina infer.

5. Stagonospora microscopica (Fr.) Sacc. $Sphwria\ microscopica$ Fr. 2438 Syst. II. p. 476. Fuck. Symb. p. 275, t. IV. f. 53. — Sparsa, atra; peritheciis nudis minimis ovatis, ostiolo subulato stricto breviusculo; sporulis anguste fusiformibus, rectis curvatisve, 8-10-septatis, $24 \approx 2-3$, hyalinis.

Hab. ad cortices et ramos subvivos vel putrescentes e. g. Ber-

beridis, Hederæ in Suecia, Germania, Gallia. — Nudo oculo haud conspicua: perithecia innato-nuda, glabra, levia, ostiolo vix longiore.

6. Stagonospora turgida (B. et Br.) Sacc. Cryptosporium turgidum 2439 B. et Br. Ann. N. H. n. 1899. — Peritheciis globosis, sat prominulis, obtusis; sporulis curvis, utrinque obtusis, tenuiter 3-septatis, 20 = 5.

Hab. in ramis Fraxini, Twycross Britanniæ (A. BLOXAM).

7. Stagonospora microspora (B. et C.) Sacc. Hendersonia micro- 2440 spora B. et C. North Amer. Fungi n. 430. — Peritheciis sparsis e basi latiuscula acutis, demum liberis, exiguis; sporulis minutis, hyalinis, angustis, breviter fusiformibus, trinucleatis, demum probabiliter 2-septatis.

Hab, in Sambuco canadensi in Carolina super.

8. Stagonospora cæspitosa (B. et C.) Sacc. Hendersonia cæspitosa 2441 B. et C. North Americ. Fungi n. 427. — Peritheciis cæspitosis, minutis, brunneolis; sporulis breviter fusiformibus curvulis triseptatis, 25 µ. longis.

Hab. in ramulis tenellis Sambuci? New England Amer. sept. 2442

9. Stagonospora Evonymi Sacc. Gibberellæ Evonymi pycnidium Fuck. Symb. p. 167. — Peritheciis cæspitosis, levibus, astomis, ovatis; sporulis in gelatina rosea expulsis, oblongis, 1-4-septatis, quandoque ad septa constrictis, hyalinis, 20-24 = 6.

Hab. in ramis corticatis Evonymi europæi in Rhenogovia.

10. Stagonospora hyalospora (Berk.) Sacc. Hendersonia hyalospora 2443 Berk. Fl. New Zeal. p. 194, tab. CVI. fig. 8. — Peritheciis punctiformibus, nitidis, subastomis; sporulis linearibus, brevibus, hyalinis, triseptatis, 23-27 ≈ 4.

Hab. in cortice Oleæ, Tehawera Novæ Zelandiæ (Colenso). — Maculas minutas format supra corticem.

11. Stagonospora herbarum (Cooke et Harkn.) Sacc. Hypocenia her- 2444 barum C. et H. in Grevill. 1881, p. 82. — Caulicola, erumpens; peritheciis atris, obtusis, in lineas dispositis; sporulis subclavatis, hyalinis, bi-trinucleatis, demum uni- vel biseptatis, 18 ≈ 3,5.

Hab. in caulibus Asteris in California. — Habitus fere Diaporthes cujusdam, ad quam forte metagenetice pertinet.

12. Stagonospora Senecionis Sacc. Pleosporæ Senecionis pycnidium. 2445 Fuck. Symb. p. 136. — Peritheciis minutis, gregariis, deplanatis, papillatis, ostiolo perithecium æquante; sporulis minutis cylindraceis, 3-septatis, hyalinis.

Hab. in caulibus siccis Senecionis nemorensis prope Estrich Rhenogoviæ.

13. Stagonospora caulicola (Desm.) Sacc. Hendersonia caulicola 2446 Desm., Kickx Fland. t. 1, p. 390. — Peritheciis minutis, $\frac{1}{5}$ - $\frac{1}{4}$ mill. diam., numerosis, tectis, nigris, convexis astomis, rotundatis, dein collabascentibus; sporulis oblongis, rectis, obtusis, 2-3 nucleatis vel septatis, 15 μ . longis, basidiis brevibus crassis suffultis.

Hab. in caulibus siccis Polygoni Persicariæ aliarumque specierum in Belgio et Gallia.

14. Stagonospora Lambottiana Sacc. Misc. Myc. F. Belg. n. 11. — 2447 Peritheciis erumpenti-subsuperficialibus, globoso-depressis, vertice tandem (collabascendo?) excavatis, subastomis, atro-olivaceis \(^{1}/_4-^{1}/_3\) mill. diam., contextu subprosenchymatico olivaceo-fusco; sporulis cylindraceis, curvulis, utrinque rotundatis, 14-18 \(\times 3-4\), 3-septatis, non constrictis, hyalinis; basidiis dense fasciculatis, cylindricis, varie furcatis v. ramosis, 25-30 \(\times 2\), hyalinis.

Hab. in trunco ramisque corticatis emortuis Callunæ vulgaris, Verviers in Belgio (Lambotte). — In genere anceps, quia perithecia subastoma et fere pezizoidea.

15. Stagonospora collapsa (C. et Ellis) Sacc. Hendersonia collapsa 2448 C. et Ellis, New Jersey Fungi in Grev. V. p. 30. — Peritheciis sparsis, globosis, demum collapsis, cupulæformibus, atris, erumpentibus; sporulis fusiformibus, triseptatis, hyalinis, 25 ≈ 5.

Hab. in ramis Aceris, New Jersey in Amer. bor.

16. Stagonospora delicatula (C. et E.) Sacc. Hendersonia delicatula 2449 C. et Ell. in Grevillea, t. 96, f. 26. — Gregaria; peritheciis subglobosis, atris, prominulis, erumpentibus, epidermide cinctis; sporulis subfusiformibus, hyalinis, nucleatis, dein tenuiter 3-septatis, $20 \approx 4$.

Hab. in ramis Nyssæ, New Jersey Amer. bor.

17. Stagonospora Populi (Corda) Sacc. Hendersonia Populi (Corda) 2450 Lév. Ann. Sc. Nat. 1846, p. 288. Sporocadus Populi Corda Icon. Fung. III. p. 39, f. 109. — Gregaria, epidermide tecta; peritheciis solitariis, minutis, planis, atris, vertice dein ruptis; sporulis oblongis, subclavatis, supra obtusis, 5-cellulosis, albis, diaphanis, 20-23 μ. longis.

Hab. in ramis putrescentibus Populi pyramidalis et P. tremulæ in Bohemia.

18. Stagonospora sibirica Sacc. Mich. II. p. 142. (sub Hendersonia 2451

sibirica). — Peritheciis e basi infossa subsuperficialibus, laxe gregariis, globoso-depressis, obtusiuscule papillatis, nigris, nitidulis \(^1/_4\) mill. diam.; contextu minute sed distincte parenchymatico, fuligineo; sporulis oblongo-cylindraceis, utrinque rotundatis, 28-30 \(\sigma\) 9-10, rectis curvulisve, 3-septatis non constrictis, 4-guttatis, hyalinis, basidiis filiformibus triplo brevioribus suffultis.

Hab. in ramis induratis decorticatis arboris frondosæ, Minus-

sinsk in Sibiria.

19. Stagonospora Arcus (B. et Br.) Sacc. Hendersonia Arcus B. et 2452 Br. Ann. N. H. n. 413. — Peritheciis gregariis dein nudis, globosis nigris; contextu chalybeo-azzureo; sporulis arcuatis, medio incrassatis, triseptatis, hyalinis; basidiis ramulosis.

Hab. in ramis Buxi sempervivis, Batheaston in Anglia. —

Forte pycnidium Gibberellæ.

20. Stagonospora allantella Sacc. Mich. I. p. 517 (sub Hendersonia). 2453 — Peritheciis gregariis, innato-erumpentibus, subglobosis, minutis, atris; sporulis fasciculatis, cylindraceis, curvulis, utrinque rotundatis, 5-6-septatis, 6-7-guttatis, 35-45 ≈ 4-5, hyalinis. •

Hab. in cortice levi Coryli (an Cerasi?) pr. Rouen in Gal-

lia (LETENDRE).

21. Stagonospora unica (Cooke) Sacc. Hendersonia unica Cooke 2454
Præc. Monogr. Henders. p. 24. — Peritheciis......; sporulis late
lanceolatis, medio constrictis, 3-6-nucleatis, demum 1-5-septatis,
hyalinis, ocellatis, interdum cristatis, 40-50 \(\pi 20\).

Hab. ad lignum in Britannia (?). - Est massarioidea, teste

Cooke, sed certe recedit quia epixyla et hyalospora.

22. Stagonospora oppilata (Fr.) Sacc. Hendersonia oppilata (Fr.) 2455 Curr. Simpl. Sphær. n. 336, fig. 114, Sphæria oppilata Fr. S. M. II. p. 493. — Sparsa, erumpens; peritheciis globosis levibus astomis nigris, nigrofarctis, ostiolo rimoso; sporulis amygdaliformibus, hyalinis, 7,5-10 µ. longis, endrochromate bipartito.

Hab. in virgultis Betularum in Suecia. — «An potius Diplodina?» Majuscula, opaca, atra, ad dimidium prominens, primo farcta, ut Sclerotium, dein intus mollior, tremellosa et diffluens.

23. Stagonospora Lophiostoma (C. et E.) Sacc. Hendersonia Lo-2456 phiostoma C. et E. in Grevillea t. 95, fig. 10. — Peritheciis erumpentibus, atris, lateraliter compressis; ostiolis elongato-fissis; sporulis clavatis, 1-3-septatis, hyalinis, longitudine variis, 15-30 = 10.

Hab. in ramis Ulmi, New Hampshire, New Jersey in Ameri-

ca boreali (J. Blake).

24. Stagonospora strobilina (Curr.) Sacc. Hendersonia strobilina 2457 Curr. in Trans. Linn. Soc. XXII. p. 329. Cooke Handb. Brit. Fungi p. 932. — Peritheciis gregariis, irregularibus; sporulis amygdaliformibus, hyalinis, endochromate bipartito.

Hab. in squamis aridis conorum Pini maritimæ, Coimbra in Britannia et Lusitania. — An potius Psilospora? An pycnidium

Dichaence strobilina Fr. ?

II. In Monocotyledoneis et Acotyledoneis.

25. Stagonospora Smilacis (Ellis et Mart.) Sacc. Ascochyta Smila- 2458 cis Ell. et Mart. Amer. Nat. 1882, p. 100. — Maculis pallidis, rotundatis, brunneo-cinctis; peritheciis nigris, globosis, innatis, epiphyllis, 140 μ . diam.; sporulis subhyalinis, ovatis, triseptatis, 11-22 = 6 - 7.

Hab. in foliis Smilacis rotundifoliæ, Concord in Pensvlvania.

26. Stagonospora Heliconiæ (Mont.) Sacc. Hendersoniæ Heliconiæ 2459 Mont. Syll. n. 944. — Hypophylla, innata, cæspitosa; peritheciis ovoideis tenuissimis, stromati grumoso pallido immersis, ostiolo prominulo; sporulis cymbiformibus hyalinis, triseptatis, breviter pedicellatis.

Hab: in foliis Heliconiæ prope Cayennam (LEPRIEUR).

27. Stagonospora Musæ (Cooke) Sacc. Hendersonia Musæ Cooke in 2460 Rav. Amer. Fungi n. 781. Grev. XII. p. 24. — Sparsa, tecta, punctiformis; peritheciis parvulis, subglobosis, fuscis; sporulis lanceolatis, triseptatis, hyalinis, 12 = 4.

Hab. in Musa (Banana), Darien, Georgia Amer. bor.

28. Stagonospora cylindrocarpa (Ell. et Everhart) Sacc. Henderso- 2461 nia cylindrocarpa Ell. et Everhart in litt. — Peritheciis submembranaceis, subcuticularibus, convexis, subelongatis contextu grosse celluloso; ostiolis minutis papilliformibus; sporulis copiosis, cylindricis hyalinis v. hyalino-flavidis, utrinque obtusis, 3-4-nucleatis (tandemque septatis?), $13-15 \approx 3^{1}/_{4}-4$.

Hab, in scapis emortuis Brodiææ Howellii pr. Washington

Amer. bor. (W. N. SUKSDORF).

29. Stagonospora macrospora (Dur. et M.) Sacc. Septoria macro- 2462 spora Dur. et Mont. Syll. p. 277. Hendersonia piptarthra Sacc. Mich. II. p. 111. Hend. Montagnei Cooke Præc. Hend. p. 19. — Amphigena; peritheciis immersis pachydermis, globosis, atris, epidermide tectis; sporulis maximis, cylindraceo-subclavatis, 3-5-septatis, $60-70 \approx 10-12$, articulis tandem solubilibus, v. saltem 3-4-nucleatis, subhyalinis.

Hab. in foliis emarcidis Agaves, Algeria in Africa (Durieu), in Gallia (Roumeguère).

30. Stagonospora Asphodeli (Mont.) Sacc. Ascospora Asphodeli Mont. 2463 Syll. p. 274. Hendersonia Asphodeli (Mont.) Sacc. Mich. II. p. 280. — Peritheciis epidermide innatis subtectis globoso—ovoideis sparsis, ostiolo prominulo, atro-albo pulverulento; sporulis tereti-oblongis 20-25 = 7-8, utrinque rotundatis, crasse 3-guttulatis, tenuiterque 2-septatis, hyalinis.

Hab. in caulibus et foliis Asphodeli fistulosi, A. albi, in Gallia et in Ital. boreali.

31. Stagenospora Curtisii (Berk.) Sacc. Hendersonia Curtisii Berk. 2464 in herb. Curt., Cooke Præcursor Monogr. Henders. p. 19. — Peritheciis....; sporulis elongato-ellipsoideis, demum biseptatis, 17-21 = 7.5.

Hab. in Narcisso in America boreali (?).

32. Stagonospora Typhoidearum (Desm.) Sacc. Hendersonia Typhoi- 2465 dearum Desm. Ann. Sc. Nat. 1849 Jun. Darluca Typhoidearum B. et Br. in Outl. of Br. Z. p. 318. — Sparsa, immersa; peritheciis minutis, globosis, brunneo-nigris; ostiolis prominulis, papillatis, pertusis; sporulis oblongis, rectis, utrinque obtusis, subfusiformibus, 4-globoso-nucleolatis.

Hab. in foliis Typhæ in Anglia. — *Sparganii Fuck. Symb. p. 379. Peritheciis sparsis, primo tectis, dein subliberis, globosis, media magnitudine, aterrimis, levibus; ostiolis minutis, papillæformibus; sporulis magnis, fusiformibus, quadriloculatis, hyalinis, 26 ≈ 6. In foliis caulibusque Sparganii in Britannia et Germania.

33. Stagonospora Luzulæ (West.) Sacc. Hendersonia Luzulæ West. 2466 Bull. ac. roy. belge II. scr. t. XIX. n. 7, Mich. I. p. 210. — Peritheciis numerosis, sparsis, nigris, immersis, ovalibus vel sphæricis, ostiolis epidermidem nigrefactam nitidam perforantibus; sporulis cylindraceis utrinque rotundatis, 12-14 \(\times 2^1/2-4\), plerumque rectis, 4-guttulatis, hyalinis.

Hab. in calamis vaginisque Luzulæ pilosæ et L. maximæ in Italia boreali, Gallia et Belgio. — Ad Phomam nutat.

34. Stagonospora innumerosa (Desm) Sacc. Hendersonia innume- 2467 rosa Desm. 19 Not. p. 10. — Culmicola; peritheciis innato-prominulis, minutissimis, 50 μ. diam., globosis, nigris, subnitidis, numerosissimis, in series longissimas parallelas dispositis, intus al-

bis, poro apertis; sporulis subhyalinis, oblongis, obtusis, subellipsoideis, curvulis, 20-30 = 5-7, nucleis 4, compressis, subcoloratis. Hab. in culmis exsiccatis Junci maritimi in Gallia.

35. Stagonospora insidiosa (Desm.) Sacc. Hendersonia insidiosa 2468 Desm. 22 Not. p. 11. — Caulicola; peritheciis nigris, ovatis, prominulis, epidermide integra aut tandem fissa tectis, poro exiguo pertusis in macula effusa alba subgregariis; nucleo argillaceo; sporulis hyalinis, cylindricis, rectis vel subcurvulis, utrinque obtusis, 20-25 = 5, nucleis 3-5 imperfectis.

Hab. in caulibus exsiccatis Junci maritimi in Gallia.

36. Stagonospora trimera (Cooke) Sacc. Hendersonia trimera Cooke 2469 in herb., Præcursor Monogr. Henders. p. 19. - Peritheciis; sporulis elongato-ellipticis, biseptatis, $22 \approx 6.5$, subhyalinis.

Hab. ad Juncum maritimum in Britannia (?) et in Fim-

bristyli autumnali in Amer. bor.

37. Stagonospora aquatica Sacc. Mich. II. p. 112 sub Hendersonia 2470 aquatica. - Peritheciis innatis, non v. vix erumpentibus, globulosis, 1/10 mill. diam., ostiolo impresso, contextu minuto parenchymatico fuligineo; sporulis cylindraceo-fusoideis, leniter inæquilateralibus, $26-28 \approx 5^{1}/_{2}$, utrinque obtusiusculis initio 4-guttatis, dein sub-3-septatis, haud constrictis, hyalinis.

Hab. in calamis Scirpi triquetri in Gallia (Brunaud). — *S. Karstenii Sacc.: sporulis crassioribus, 25-39 = 6-8. In calamis Scirpi lacustris in Fennia (Karsten). — *S. junciseda Sacc. Mich. II. p. 350. A typo differt peritheciis duplo majoribus prominulis; sporulis angustioribus et utrinque acutioribus, nempe $25-30 \approx 3-3^{1}/_{2}$, triseptatis, non constrictis hyalinis. In calamis Junci effusi v. affinis, mare de l'Etoile, Lyon in Gallia (THERRY). -*S. lacustris Sacc. l. c.: peritheciis gregariis globoso-depressis, subcutaneis, vix papillatis, $^1\!/_5$ mill. diam.; sporulis fusoideis, subacutis, $26 \approx 3^{1}/_{2}$, triseptatis, non constrictis, e chlorino hyalinis. In calamis Scirpi lacustris, Lyon in Gallia (THERRY).

38. Stagonospora Caricis (Oud.) Sacc. Hendersonia Caricis Oud. 2471 Mater. Flora mycol. de la Neerlande II. pag. 19. - Peritheciis sparsis, sub epidermide nidulantibus eamque apice, poro pertuso, perforantibus, membranaceis, fuscis; sporulis hyalinis, fusiformibus, utrinque acutatis vel obtusis, rectis vel parum curvatis, absque pedicelli vestigio, denique plerumque 5-septatis, nucleis de-

ficientibus, $25-40 \approx 4-5$.

Hab. in foliis Caricis muricatæ, Noaldwijk in Neerlandia.

39. Stagonospora macrosperma Sacc. et Roum. Sacc. Mich. II. p. 2472 629 (1882) sub *Hendersonia*. — Peritheciis subcutaneis vix erumpentibus, globoso-depressis, pertusis, 300-400 μ. diam.; sporulis tereti-fusoideis, utrinque obtusiusculis, 85-95 ≈ 12-14, leniter curvis, 6-8-septatis, non constrictis, guttulatis e hyalino viridulis.

Hab, in foliis graminum, Malmedy in Arduennis (LIBERT).

40. Stagonospora gigaspora Niessl, Hedw. 1882, p. 181 (sub Hen- 2473 dersonia). Peritheciis sparsis, majusculis, tectis, depresso-globosis, ostiolo punctiformi; sporulis subcylindraceis vel subfusiformibus, rectis, utrinque obtuse rotundatis, 6-8-cellularibus dilutissime virescentibus, 74-80 ≈ 11-14.

Hab. in foliis emortuis Caricis montanæ, Adamsthal in Moravia. — Verisimiliter non diversa a Stag. macrosperma Sacc. et Roum. anteriore.

41. Stagonospora macropus (B. et Br.) Sacc. Darluca macropus 2474 (B. et Br.) Cooke Handb. n. 1287. Hendersonia macropus B. et Br. N. H. n. 416. — Peritheciis omnino tectis depressis, dein collapsis, poro minuto pertusis epidermidemque atro-punctulantibus; sporulis longe pedicellatis, elongatis, cylindraceis, sæpe curvatis, 3-6-nucleolatis.

Hab. in foliis emortuis Caricis in Britannia et Germania. — Teste Fuckel,, forma esset Stag. Typhoidearum.

42. Stagonospora paludosa (Sacc. et Sp.) Sacc. Hendersonia palu- 2475 dosa Sacc. et Sp. in Mich. I. p. 353. — Peritheciis gregariis in parenchymate foliorum immersis amphigenis, circa ostiolum epidermidi hærentibus, globosis, 100-120 μ. diam., papillulatis, vix denique erumpentibus, contextu membranaceo indistincte parenchymatico, fusco; sporulis fusoideis, utrinque acutiusculis, rectis curvulisve, 50-60 ≈ 9-10, 8-10-septatis, ad septa non v. vix constrictis, grosse 9-11-guttatis, hyalinis.

Hab. in foliis putrescentibus Caricis ripariæ, Bresseo (Euganei) in Ital. bor. — Ab affinibus S. arundinacea, S. subseriata et S. Typhoidearum magnitudine et septatione sporularum differt.

43. Stagonospora arenaria Sacc. Mich. I. p. 124 sub Hendersonia 2476 — Peritheciis gregariis subcutaneis dein, erumpentibus, globosolenticularibus, 1/4-1/5 mill. diam., minutissime papillatis, quandoque subhysteriiformibus, atris, contextu minute sed distincte celluloso, ochraceo-fuligineo; sporulis cylindraceis rectis curvulisve utrin-



454

Sphærioideæ, Phragmosporæ, Stagonospora. que obtusiusculis, $30-35 \approx 3^{1}/_{2}-4$, plasmate 4-partito 3-septatisque, hyalinis.

Hab. in culmis Elymi arenarii ad Skaereninsel östlich von Dalaroe prope Stokholm Daniæ (P. Magnus). - Ad genus Septoriam paullulum quoque vergit.

44. Stagonospora intermixta (Cooke) Sacc. Hendersonia intermixta 2477 Cooke in herb. Præcur. Monogr. Henders. pag. 19. - Peritheciis......; sporulis fusoideo-elongatis, 7-septatis, flavidis, $50 \approx 3.5$.

Hab. in caulibus Milii multiflori in consortio Hendersoniæ Castagnei in Britannia (?).

45. Stagonospora subseriata (Desm.) Sacc. Hendersonia subseriata 2478 Desm. Exs. n. 1893, Kickx Flandr. t. I, pag. 390. — Peritheciis erumpentibus, 3-5-subseriatis, subinde confluentibus, minutis, nigris, globulosis, poro minuto pertusis; sporulis fusiformibus oblongis, $38-40 \approx 7$, 6-8-nucleatis, 3-6-septatisque, hyalinis.

Hab. in culmis siccis Enodii cœrulei aliorumque graminum

in Belgio et Germania.

46. Stagonospora Ischæmi Sacc. Mich. I. p. 201 sub (Hendersonia). 2479 - Peritheciis gregariis v. longitudinaliter cæspitulosis, erumpentibus globulosis, papillatis; contextu parenchymatico, atro; sporulis cylindraceis v. oblongatis, 12 = 4, initio 4-guttulatis, dein 1septatis, tandem 3-septatis, ad septa non constrictis, hyalinis.

Hab. in culmis putrescentibus Andropogonis Ischæmi,

Padova in Ital. bor.

47. Stagonospora graminella Sacc. Mich. I. p. 210 (sub Henderso- 2480 nia). — Peritheciis gregariis, erumpentibus, globoso-papillatis, atris; contextu parenchymatico fuligineo; sporulis cylindraceis utrinque obtusiusculis, $18-20 \approx 3-3^{1}/_{2}$, (jugiter) 4-6-guttulatis, hyalinis.

Hab. in culmis graminum inferiorum, Selva in Ital. bor. et Malmedy in Arduennis. - *lophioides Sacc. Mich. II. p. 111. A typo differt præcipue peritheciis compresso-oblongis ostioloque ipso subrimoso; sporulis cylindraceis, curvulis, utrinque obtusis, 15-16 = 3, 4-nucleatis, hyalinis. In culmis tenellis Phragmitis, socio Lophiotremate semilibero, Rouen in Gallia (LETENDRE).

48. Stagonospora vexatula Sacc. Mich. II. p. 350 sub Hendersonia 2481 vexatula. — Peritheciis gregariis, innato-erumpentibus, globosoconoideis, 1/5 mill. diam., nigris, duriusculis; sporulis cylindraceis, utrinque rotundatis, $35-38 \approx 4^{1}/_{2}-5$, quinque-septem-nucleatis, hya-

Hab, in culmis emortuis Phragmitis communis, Saintes in Gallia (Brunaud). - A S. vexata Sacc. (Mich. I. 211, II. 112) differt sporulis multo minoribus.

49. Stagonospora dolosa Sacc. et Roum. in Mich. II. p. 630 (sub 2482 Hendersonia). - Peritheciis erumpenti-superficialibus, globosopapillatis, 1/2 mill. diam., atro-nitidulis; sporulis fusoideis, rectis v. curvulis, 60-70 = 10, quinqueseptatis, 6-nucleatis, non constri-

ctis, hyalinis.

Hab. in culmis Phragmitis, Malmedy in Arduennis (Libert).

- Habitus S. vexatæ, sed sporulæ diversæ.

50. Stagonospora vexata Sacc. Mich. I. p. 211 et II. p. 112 (sub 2483 Hendersonia arundinacea, non vero Desm.) - Peritheciis innato-erumpentibus, sæpe seriatis, globoso-papillatis, atris; sporulis cylindraceo-bacillaribus, utrinque rotundatis, 60-70 = 7, 10-12-septatis, 11-13-guttulatis, hyalinis.

Hab. in culmis Phragmitis communis, socia Leptosphce $ri\hat{a}$ arundinace \hat{a} , Selva, Padova in Ital. bor. — β . pauperior Karst. Symb. myc. Fenn. XIII. p. 12; sporulis fusoideo-bacillaribus, hyalinis, 5-7-septatis, 7-8-guttulatis, 65-75 = 9-10. In cul-

mis Phragmitis communis, Aboa Fenniæ.

51. Stagonospora hysterioides (Karst.) Sacc. Hendersonia hysterioi- 2484 des Karst. Hedw. 1884, p. 60. - Peritheciis gregariis, erumpentibus, elongatis, hysteriiformibus, usque ad l mill. longis; sporulis fusoideo-bacillaribus, rectis, simplicibus (semper?), 4-6-guttulatis, hyalinis, $14-16 \approx 3$.

Hab. in culmis emortuis Phragmitis communis, Aboa in

Fennia.

52. Stagonospora neglecta (West.) Sacc. Hendersonia neglecta West. 2485 Exs. n. 1224, Kickx Fl. crypt. Fl. I. p. 390. - Peritheciis perexiguis, sparsis, copiosissimis, innatis, globulosis, nigris, epidermide subinflata albaque tectis, poro pertusis; sporulis fusoideis, hyalinis, 3-septatis.

Hab. in vaginis Phragmitis communis, Ostende et Nieu-

port in Belgio (WESTENDORP).

53. Stagonospora Arundinis (Cooke) Sacc. Hendersonia Arundinis 2486 Cooke Præcursor Monogr. Henders. p. 19. - Peritheciis; sporulis ovatis, ellipticis vel elongatis, 1-3-septatis, polymorphis, flaveolis, 15-20 = 6.

Hab. in Arundine Donace in Britannia (?).

54 Stagonospora epicalamia (Cooke) Sacc. Hendersonia epicala- 2487

mia Cooke, Præcursor Monogr. Henders. p. 19. — Peritheciis.....; sporulis subfusiformibus, obtusis, triseptatis, 30 = 5, subhyalinis. Hab. ad culmos Arundinis in Britannia (?).

55. Stagonospora Rauii (Ell.) Sacc. Hendersonia Rauii Ell. Torr. 2488 bot. Club. 1882, p. 133. — Pustuliformis; sporulis oblongo-ellipticis, 2-nucleatis, subhyalinis, 9-11 ≈ 3,5, basidiis æquilongis suffultis.

Hab. in capsulis Polytrich i formosi prope Bethlehem Americæ bor. (RAU).

MASTOMYCES Mont. Ann. Sc. Nat. 3. X. p. 134, t. 6, f. 4 (1848). (Etym. mastos mamma, et myces fungus). Topospora Fr. F. Natal. p. 33 (1848). — Perithecia gregaria, innato-erumpentia, nigra, oblonga, ventricosa, ostiolata, ostiolo papillæformi, tota e fibris parallelis olivaceis composita. Sporulæ fusiformes, triseptatæ, hyalinæ, longissime pedicellatæ, tandem cum gelatina erumpentes.

Mastomyces Friesii Mont. l. c. p. 135, t. 6, f. 4. Sphæria ube- 2489 riformis Fries Syst. Myc. II. p. 491. Topospora uberiformis Fr. F. Natal. p. 33. — Gregaria, erumpens; peritheciis elongatis, ventricosis, utrinque attenuatis, nigris, ostiolo crasso papiliæformi; sporulis fusoideis, 3-septatis, utrinque acutis ad septa leniter constrictis, 16-20 ≈ 2,5, hyalinis; basidiis capillaribus sporulâ 4-5-plo longioribus.

Hab. in ramis emortuis Ribis nigri in Suecia. — Perithecia tota erumpentia, liberata, lineam longa, subinde cæspitosa, basi stipitiformi intra corticem delitescente, rigida, levissima, subnitida, in estiolum magnum coarctatum angustata. — Habitus fere Bombardiæ.

2. Mastomyces? proboscidea (Fr.) Sacc. Sphæria proboscidea Fr. 2490 in Kunze et Schm. Heft. II. p. 53. Topospora proboscidea Fr. F. Natal. p. 32, et Summa V. S. p. 415. — Subcorticalis; peritheciis elongatis cylindricis, glabris, nigris, ostiolo papillæformi, erumpente; sporulis......

Hab. in ramis emortuis salicinis in Suecia.

REPERTORIUM

SPHÆRIOIDEARUM PHRAGMOSPORARUM

SECUNDUM MATRICES

Obs. A. indicat Angiopoma. — C. Couturea. — Cr. Cryptostictis. — H. Hendersonia. — Hu. Hendersonula. — L. Lichenopsis. — M. Mastomyces. — P. Prosthemium. — S. Stagonospora.

N. 2288 - 2490 citantur 288 - 490

Abies - H. 327.

Acer - H. 293. 346. - S. 448.

Agave - S. 462.

Ailanthus - H. 293.

Alnus -- P. 431.

Ammophila — H. 392.

Ampelopsis — H. 293.

Andropogon — S. 479.

Apluda - H. 390.

Araucaria - H. 350.

Aristida - H. 403.

Arundo — H. 397. 400. 401. — S. 486. 487.

401.

Asphodelus - S. 463.

Aster — S. 444.

Berberis — H. 293. — Hu. 438.

Betula - H. 414. - P. 430. - S. 455.

Brachypodium - H. 391.

Brodiæa - S. 461.

Bromus - A. 422.

Buxus - S. 452.

Calluna - S. 447.

Calycanthus - H. 293.

Camellia — H. 355.

Capparis - H. 288. 371.

Carex — H. 386. — S. 471. 473. 474.

475

Carpinus — H. 408. 409.

Carya - H. 418.

Celtis - H. 347. - L. 423.

Cerasus - S. 454.

Chrysobactron — H. 406.

Convolvulus — H. 369.

Cornus — H. 298, 299, 336, — L. 423.

Corylus — H. 348. — S. 453.

Cupressus - H. 353.

Cydonia - H. 337, 339, 340.

Cytisus — S. 434.

Delphinium - H. 357.

Elymus - S. 476.

Enodium - S. 478.

Eucalyptus — H. 319, 320.

Evonymus — S. 442.

Fagus - H. 410.

Ficus — H. 325.

Fimbristylis — S. 469.

Fourcroya - H. 380.

Frangula - H. 297.

Fraxinus — H. 290. — Hu. 439.

Galega - H. 293.

Galium - H. 355.

Gladiolus - H. 379.

Gleditschia - H. 294.

Glyceria - H. 404.

Graminaceæ - S. 172. 480.

Hedera — H. 293. — Hu. 438.

Heliconia - S. 459.

Humulus - H. 355. 375.

Heracleum — H. 365.

Iasminum - H. 288. 293.

Iuncus — H. 399. — S. 467. 468. 469.

Iuniperus - H. 352. 354.

Lagenaria - H. 370.

Lagerstræmia — H. 289.

Laurus — H. 289. 293.

Lecidea - H. 407.

Lilium — H. 382.

Liriodendron - H. 289.

Lonicera — H. 307. 308. 309. 310. -

Cr. 428.

Lupinus - H. 359.

Luzula - S. 466.

Lychnis - H. 355.

Magnolia - H. 331.

Magydaris - H. 366.

Medicago - H. 358.

Mespilus - S. 436.

Milium - H. 402. - S. 477.

Morus — H. 413.

Musa - S. 460.

Narcissus — S. 464. Nyssa — S. 449.

Olea - C. $4\frac{4+2}{2}$ - S. 443.

Parietaria - H. 369.

Paronychia - H. 362.

Phaseolus — S. 435.

Phragmites — H. 389. 382. 393. 394. 395. 396. 397. 398. 399. — S. 480.

481. 482. 483. 484. 485.

Pinus — H. 328. 351. — S. 457.

Pirus — H. 290. 341. 342. 420. — S. 437.

Platanus - H. 411.

Polygonum — H. 373. — S. 446.

Polytrichum — S. 488.

Populus — H. 289. 293. 333. 337. 349. — S. 450.

Prunus — H. 288. 290. 337. 338. — Hu. 433.

Quercus — H. 329, 335, 337, 345, 416, 417, — Cr. 426,

Rhamnus - H. 296.

Rhododendron - H. 344. - Cr. 427.

Rhus — H. 289. 323. 324.

Ribes - M. 489.

Robinia - H. 329.

Rosa — H. 314. 315. 332. 407. — Cr. 424. 429.

Rosmarinus 421.

Rubus — H. 292. 293. 316. 317. 333.

Ruscus - H. 384.

Sabal — H. 376. Salicornia — H. 374.

Salix — H. 290. 326. 337. — M. 490.

Sambucus — H. 293. 303. 304. 305. 306. 355. — Hu. 440. 441.

Scirpus — H. 385. — S. 470.

Senecio - S. 445.

Smilax - S. 458.

Solanum - H. 367. 368. - Hu. 432.

Sorbus - H. 290. 343.

Sorghum - H. 388.

Sparganium - H. 377.

Spiræa - H. 361.

Statice — H. 372.

Symplocos - H. 322.

Syringa - H. 301. 302.

Tecoma - H. 321.

Tephrosia — H. 360. Thea — H. 334.

Tilia — H. 318.

Triticum - H. 405.

Typha — H. 378. — S. 465.

Ulmus - S. 456.

Umbelliferæ — H. 363. 364.

Viburnum — H. 300. 337.

Vitis — H. 293. 311. 312. 313. 314. — Cr. 425.

Wistaria — H. 295.

Xerophyllum - H. 383.

Yucca - H. 381.

Zea — H. 373.

Sect. 6. Dictyosporæ Sacc.

Sporulæ ovoideæ vel oblongæ, 2-pluriseptato-muriformes, vel radiatim vel cruciatim septatæ, fuligineæ vel olivaceæ (Formæ hyalo-phragmiæ hucusque desiderantur).

Clavis analytica generum.

I. Perithecia discreta.

§ Sporulæ episporio levi seu non reticulato ornatæ.

Camarosporium. Perithecia corticola, subcutanea vel erumpentia.

Cytosporium. Perithecia xylogena, subsuperficialia.

§§ Sporulæ episporio reticulato ornatæ.

 ${\it Endobotrya}$. Perithecia subcutanea; sporulæ intus articulos globosos transverse seriatos foventes.

II. Perithecia stromate dothideaceo subimmersa. Dichomera. Est Camarosporium stromaticum.

- CAMAROSPORIUM Schulz. Myk. Beitr. 1870 p. 649, Sacc. Mich. II. p. 8. (Etym. kamara fornix, cella, et spora), Dichomera Cooke p. p., Staurosphæria Rabenh. p. p. Perithecia subcutaneo-erumpentia, discreta, globulosa, atra, sæpius papillata, membranacea vel subcoriacea. Sporulæ ovoideæ oblongæ vel fusoideæ, 2-pluriseptatomuriformes, fuligineæ vel olivaceæ.
 - I. In ramis, rarius fructibus Dicotyledonearum lignosarum.
- Camarosporium Robiniæ (West.) Sacc. Hendersonia Robiniæ West. 2491
 Crypt. class. p. 375. Peritheciis subglobulosis, brunneis, cortice immersis, initio sparsis dein lineatim seriatis epidermidem perforantibus; ostiolo subpapilliformi; sporulis ovali-elongatis, brunneis, 6-8-septato-muriformibus, 15-16 ≈ 7.

Hab. in ramulis emortuis Robiniæ Pseudacaciæ in Gallia, Belgio, Italia, Britannia, Bavaria, Austria inf. et Amer. sept. —
— Verisimiliter pycnidium Cucurbitariæ elongatæ.

2. Camarosporium subfenestratum (B. et C.) Sacc. Hendersonia sub- 2492 fenestrata B. et C. North Americ. Fungi n. 427^{bis} — Peritheciis sparsis congestisve; sporulis 5-7-septatis, verticaliter divisis, oblongis, utrinque obtusis, $15-25 \approx 5^{1}/_{2}$ -7.



Hab. in ramis Robiniæ in Carolina sup. Amer. bor. — «An diversum a C. Robiniæ? et C. Berheleyano?». Sec. Farlow Bost. Fungi p. 252 huc spectat Sphæria pubens Schw.

3. Camarosporium Triacanthi Sacc. in Mich. I. p. 507 sub *Hender-* 2493 sonia. — Peritheciis erumpentibus, sæpe cæspitulosis, globosis, papillatis, nigris; sporulis oblongis, 20 = 8, 4-5-septato-muriformibus, fuligineis.

Hab. in ramis putrescentibus Gleditschiæ Triacanthi in Cadore (Belluno) Ital. bor. — β. minus Sacc. Fung. Gall. n. 2173; sporulis sæpius 3-septato-muriformibus, 16-18 ≈ 8-10, fuligineis. — In leguminibus Gleditschiæ Triacanthi, Saintes Galliæ (ΒRUNAUD).

4. Camarosporium Coronillæ Sacc. et Sp. in Mich. I. pag. 208 sub 2494 Hendersonia — Peritheciis sparsis v. aggregatis, erumpentibus, olivaceo-nigris, globulosis, papillatis, denique umbilicatis; sporulis oblongis, utrinque rotundatis, rectis curvulisve, 15-18 ≈ 6-8, 3-5- septato-muriformibus, rarius ad septa constrictis, dilute fuligineis.

Hab. in ramulis Coronillæ Emeri, Susegana in Ital. bor., socia Cucurbitaria Coronillæ (Fr.) Sacc. (Spegazzini). — β . Coluteæ Sacc. Rel. Lib. IV. n. 143: sporulis $16-18 \approx 6-7$, 3-septatomuriformibus, fuligineis. Ad ramulos Coluteæ, Malmedy in Arduennis (Libert). — γ . Lauri Sacc. Mich. I: p. 516: peritheciis gregariis, innato-erumpentibus; sporulis ovato-oblongis, $20 \approx 8$, 3-septato-muriformibus, olivaceo-fuligineis. — In ramulis Lauri nobilis pr. Rouen Galliæ (Letendre).

5. Camarosporium Coluteæ (P. et C.) Sacc. Hendersonia Coluteæ 2495 P. et C. 33. Rep. St. Mus. pag. 23. — Peritheciis prominentibus, erumpentibus, hemisphæricis vel subconicis, firmis, ostiolo nigro papilliformi; sporulis oblongis, obtusis, coloratis, 3-6-septatis, subinde longitudinaliter septatis, 20-25 u. longis.

Hab. in ramis emortuis Coluteæ arborescentis, Buffalo. — An eadem ac C. Coronillæ β .?; sporulæ tamen in hoc minores et parcius septatæ.

6. Camarosporium Laburni Sacc. et Roum. Mich. II. p. 630. — Pe. 2496 ritheciis corticolis, gregariis, globosis, ½-½ mill. diam., breve papillatis, nucleo atro; sporulis oblongis, utrinque rotundatis, 7-9-septatis muriformibusque, 30-32 ≈ 9-10, ad septa vix constrictis, fuligineis, breve hyalino-stipitatis.

Hab. in ramis Cytisi Laburni in Gallia merid. — Pycnidium Cucurbitariæ Laburni.

7. Camarosporium alpinum Speg. Dec. Mycol. 112 (sub Henders.) 2497 Sacc. Mich. II. p. 166. — Peritheciis cæspitosis, rarius subsparsis, erumpentibus, globosis, papillulatis, atris, contextu densissime parenchymatico, fuligineo; sporulis ellipsoideis v. ovoideis, 12-15 ≈ 5-6, utrinque obtusiusculis, 3-4-septatis, septo uno alterove longit., fuligineo-olivaceis.

Hab. in ramulis Sarothamni scoparii in alpinis M. Borgà Cimolais, Carnia in Italia bor. (Spegazzini). — Valde recedit a statu macrostyl. Cucurbitariæ Spartii, qui describitur a Fuck. Symb. Nachtr. 1. 20 et II. 32.

- 8. Camarosporium abnorme (Peck) Sacc. Hendersonia abnormalis 2498 Peck 33. Rep. St. Mus. 23. Peritheciis numerosis, minutis, subconicis, ramulos omnino ambientibus, maculis subfuligineis insidentibus, pustulas minutas corticales formantibus, dein epidermidem perforantibus ostioloque minuto rotundo dehiscentibus; sporulis ellipticis vel oblongis, coloratis, 15-28 = 10, 6-septatis muriformibusque.
- Hab. in ramulis Celastri scandentis, Charlton Amer. bor.
 9. Camarosporium polymorphum (De Not.) Sacc. in Mich. I. p. 208 2499 sub Hendersonia. Diplodia polymorpha De Not. Micr. Ital. IV. f. 5. Peritheciis sparsis, globulosis, papillulatis, e fibris ligneis erumpentibus; sporulis ellipsoideis, initio continuis stipitellatis, dein 3-4-septato-muriformibus, 10 ≈ 8, ad septa non v. vix constrictis, fuligineis.

Hab. in ramis Loniceræ Xylostei in Ital. bor., in caulibus Rutæ, Saintes in Gallia (Βρυναυρ). — Huic paullulum affine est C. sarmenticium Sacc. Teste Cooke, huc spectaret Hendersonia Loniceræ, de qua cfr. suo loco. — β. Rutæ Sacc. F. Gall. n. 2255: sporulis ovato-globosis, 2-3-septato-muriformibus, subinde cruciatim septatis, fuligineis, 10-15 ≈ 8-10. — In caulibus Rutæ, Saintes (Βρυναυρ).

10. Camarosporium Xylostei Sacc. Didymosphæriæ Xylostei st. ma- 2500 crostylosp. Fuck. Symb. p. 141. — Peritheciis sparsis, in cortice sub epidermide nidulantibus, demum subliberis, minutis, conico-globosis, atris, minutissime papillatis; sporulis oblongo-ovatis, utrinque attenuatis, nec non obtusis, 3-5-septatis muriformibusque, ad septa constrictis, fuscis, 18-20 ≈ 8.

Hab. in ramis corticatis mortuisve vivisve Loniceræ Xylostei pr. Hattenheim Germaniæ.

11. Camarosporium macrosporum (Berk. et Br.) Sacc. Hendersonia 2501



macrospora Berk. et Br. Ann. of Nat. Hist. II. p. 413. Hendersonia pulchella Sacc. Myc. ven. sp. p. 200, t. XVII. f. 22-23. — Peritheciis tectis sparsis, nigris, globoso-hemisphæricis, papillulatis, $\frac{1}{2}$ mill. diam.; sporulis lanceolatis, $20 \approx 7$, primo 1-septatis, denique 4-5-septatis, ad septa constrictis parceque muriformibus fusco-lutescentibus.

Hab. in ramulis Philadelphi coronariæ in Ital. bor., Anglia, Germania, Austria infer.

12. Camarosporium Rosarum (West.) Sacc. Staurosphæria Rosarum 2502 West. Exs. n. 1371, Kickx Fland. t. I. p. 399. — Peritheciis minutis, sparsis, immersis, nigris, ostiolo papilliformi epidermidem perforante; sporulis numerosis, rotundatis, brunneis, tri-septatis; septis obliquis ad centrum convergentibus; basidiis filiformibus, brevibus, simplicibus.

Hab. in ramis dejectis Rosarum, Gand in Belgio. — Sporulæ potius Dichomeræ sed perithecia discreta.

13. Camarosporium rubicolum Sacc. Mich. I. p. 209, sub *Hendersonia*. 2503 — Peritheciis sparsis, globulosis, minutis, erumpentibus; sporulæ oblongo-ovoideis v. subangulosis, utrinque rotundatis, 12-14 = 6, 3-4-septato-muriformibus, ad septa non constrictis, fuligineis, initio vero continuis et breviter stipitatis.

Hab. in ramulis Rubi fruticosi, Padova in Ital. bor.

14. Camarosporium Padi Brunaud in Roum. Revue Mycolog. — Pe- 2504 ritheciis nigris minutis gregariis, sæpe lineatim dispositis, cortice tectis; sporulis brunneis, ovalibus elongatis utrinque leniter rotundatis, 5-septatis, loculis mediis longitudinaliter septatis et constrictis, 18-20 ≈ 5-6,5.

Hab. in ramis emortuis Pruni Padi, Saintes in Gallia.

15. Camarosporium multiforme Sacc. et Schulz. Ill. Fung. Slav. n. 2505 87. — Peritheciis cortice secedente, superficialibus, globulosis, obtuse papillatis, perexiguis, $^1/_{10}$ mill. diam., atris, tenuibus; sporulis oblongis v. sarciniformibus cruciatim v. muriformi-1-3-septatis, fuligineis, ad septa constrictis, 9-12 μ . cr. vel usque 18 μ . longis.

Hab. in ramulis Cydoniæ vulgaris pr. Vinckovce Slavoniæ.

6. Camarosporium Tiliæ Sacc. et Penz. Mich. II. p. 630. – Peri- 2506 theciis gregariis, peridermio pustulatim elevato tectis, globoso-depressis atris, ostiolo obtuso vix erumpente; sporulis obovatis, basi acutiusculis, apice rotundatis v. subinæqualibus, 8-10 \approx 6-7, 2-3-septatis muriformibusque fuligineis.



Hab. in ramis corticatis emortuis Tiliæ europææ in Gallia (Letendre). — Affine Cam. incrustanti Sacc.

17. Camarosporium sarmenticium Sacc. Mich. I. p. 96. — Perithe- 2507 ciis sparsis erumpenti-superficialibus, subcarbonaceis, globosis, majusculis, atris, in ostiolum breve cylindraceum attenuatis; sporulis e globoso ellipsoideis, inæqualibus, $22 \approx 12-14$, sæpe in basim subcuneatis, 3-septato-muriformibus, ad septa vix constrictis, opace fuligineis, loculis extimis pallidioribus.

Hab. in sarmentis corticatis Hederæ Helicis, Padova in . Italia boreali.

18. Camarosporium viticolum (C. et Harkn.) Sacc. Dichomera viti- 2508 cola Cooke et Harkn. Grev. 1881, p. 83. — Sparsum, erumpens; peritheciis atris, subglobosis, prominulis; sporulis subglobosis, septatis, cellula altera longitudinaliter divisis, fuscis, 8 ≈ 6.

Hab. in racemis Vitis exsiccatis in California.

19. Camarosporium Cerei (Peck) Sacc. Hendersonia Cerei Peck. 2509
Botan. Gazet. p. 55. — Peritheciis minutis, hemisphæricis, dein collapsis v. depressis, ostiolo papilliformi, nigris; sporulis numerosis, oblongis, dilute coloratis, 3-septatis, ad septa constrictis, 20-22 ≈ 4-5, loculo secundo superiore longitudinaliter diviso.

Hab. in cortice emortuo Cerei gigantei, Arizona in Amer. bor. (Pringle).

20. Camarosporium Visci Sacc. Gibberideæ Visci st. macrostylosp. 2510 Fuck. Symb. p. 169. — Peritheciis liberis, cæspitosis, in stromate spurio dense dispositis, majusculis, globosis, aterrimis, ostiolis papillatis, demum distincte perforatis; sporulis oblongis, subfusiformibus, rectis curvatisve, plerumque 7-septatis, raro septo longitudinali, sub medio arcte constrictis, pallide flavis, $32 \approx 6$, quandoque stipitibus longis adhuc adhærentibus; subinde spermatiis intermixtis cylindraceo-ovatis, rectis, hyalinis, 6 μ . long.

Hab. in ramulis siccis Visci albi in Jura Helvetiæ (Morthier).

21. Camarosporium incrustans Sacc. Mich. I. p. 208. sub *Hender- 2511 sonia*. — Peritheciis cortice nidulantibus, sparsis v. sæpius aggregatis, globosis, papillulatis, atris, pachydermaticis; sporulis ovoideis initio continuis guttulatis, flavo-lutescentibus dein 3-septato-muriformibus, 15-17 = 8, ad septa non v. vix constrictis, opace fuligineis.

Hab. in ramis corticatis Rhois typhinæ, Padova in Ital. bor., sociá Thyridariá incrustante Sacc., et Corni sanguineæ, Selva in Ital. bor.

22. Camarosporium rhoinum (Cooke et Harkn.) Sacc. Dichomera 2512 rhoina Cooke et Harkn. in Grev. 1881, p. 83. — Sparsum; peritheciis subglobosis, atris, demum denudatis, obtusis; sporulis ellipticis, triseptatis, cellula una alterave transverse divisa, fuscis, 20 = 8.

Hab. in ramis emortuis Rhois trilobæ in California.

23. Camarosporium Berkeleyanum (Lév.) Sacc. Hendersonia Berke- 2513 leyana Lev. in Ann. Sc. Nat. 1846, p. 289. — Peritheciis cæspitosis globosis glabris nigris erumpentibus, stromate corticali effuso atro maculæformi insidentibus, ostiolis papillatis; sporulis elliptico-cylindricis, utrinque obtusis, 3-4-septatis, septis 1-2 longitudinaliter divisis, leniter opacis.

Hab. in ramis deciduis Ailanthi glandulosæ, Paris in Gallia et New York in Amer. bor. — Sec. Farl. Fungi Bost. p. 252

vix differt a C. subfenestrato.

24. Camarosporium cruciatum (Fuck.) Sacc. Coniothyrium crucia 2514 tum Fuck. Symb. myc. pag. 173. — Peritheciis gregariis, primo tectis demum subliberis, globosis, depressisve, papillatis, atris; sporulis in basidiorum brevium apicibus ortis, irregulariter rotundatis oblongisve, utrinque obtusissimis, aliis simplicibus, multo sæpius vero 1-4-septatis, septis sæpe cruciatis submuriformibusque, fuscis, magnitudine variis, 6-10 μ. diam. longioribusve.

Hab. in ramis Alni campestris in Germania et Ital. bor. 25. Camarosporium Quercus Sacc. et Roum. Reliq. myc. Libert. IV. 2515 n. 142. — Peritheciis cæspitulosis, erumpentibus, globulosis, obtuse papillatis, 1/3 mill. d., atris; sporulis oblongis, utrinque rotundatis 5-septato-muriformibus, haud constrictis, 25-28 = 8-10, fuligineis; basidiis quarta parte brevioribus, filiformibus.

Hab. in ramis corticatis Quercus, Malmedy in Arduennis. -

Sistit probabiliter pycnidium Otthiæ Quercus.

26. Camarosporium Mori Sacc. Mich. I. p. 208, sub Hendersonia. - 2516 Peritheciis erumpentibus, gregariis v. aggregatis, globulosis, breviter papillatis, aterrimis; contextu parenchymatico fusco; sporulis oblongo-ovoideis, $22 \approx 10$, quandoque inæqualibus, 3-5-septato-muriformibus, ad septa non constrictis, fuligineis.

Hab. in ramis Mori albæ, Conegliano in Ital. bor. (Spegazzini). — Huc probabiliter spectat Camarosporium Mori Schulz. Myk. Beitr. 1870 p. 649 (Slavonia), et Hender. Mori Kalchbr.

Hedw. 1866 p. 191 (Hungaria).

27. Camarosporium propinquum Sacc. Mich. I. p. 516 sub Hender- 2517

sonia. — Peritheciis subcutaneo-erumpentibus gregariis, globoso-papillatis nucleoque farcto nigris, ½ mill. diam.; sporulis ovato-oblongis, 15-16 \approx 8, 3-septato-muriformibus, non constrictis fuli-gineis, basidiis brevibus, crassiusculis initio suffultis.

Hab. in ramulis Salicis vitellinæ, Rouen in Gallia (LE-

TENDRE).

28. Camarosperium salicinum Sacc. Rouss. et Bomm. Miscell. Myc. F. ²⁵¹⁸ Belg. n. 13. — Peritheciis subcutaneo-erumpentibus, globoso-papillatis atris, laxe gregariis, ½ mill. diam.; sporulis ellipsoideis, 3-septato-muriformibus, ad septa constrictis, utrinque rotundatis, 18-20 = 8-10, fuligineis; basidiis.... non visis.

Hab. in ramis corticatis salicinis, socià Diplodià salicellà Sacc. prope Bruxelles Belgii. — Camarosporio propinquo nimis

forte affinis species.

29. Camarosporium picastrum (Fr.) Sacc. Sphæria picastra Fr. S. 2519 M. II. p. 463 p. p., Curr. Simpl. Sphær. pag. 320. — Sparsum, atrum, opacum; peritheciis ellipticis, conico-depressis, innatis, rugulosis, umbilicatis; sporulis fusco-brunneis, septato-muriformibus, 20 = 6-7.

Hab. in ligno indurato resinoso Pini silvestris in Germania.

30. Camarosporium Pini (Westd.) Sacc. Hendersonia Pini West. 2520 Bul. Ac. belg. II. ser. t. 2, n. 7. — Peritheciis corticolis, sparsis minutis nigris immersis; epidermide leniter elevata ostioloque minute perforata tectis; sporulis ovalibus, brunneis, 3-septatis, septisque 1-2 verticalibus divisis.

Hab. in cortice Abietis excelsæ, Mons in Belgio et in Ger-

mania.

31. Camarosporium partitum (B. et C.) Sacc. Hendersonia parti- 2521 ta B. et C. North Americ. Fungi n. 428 bis. — Peritheciis cæspitosis opacis epidermide cinctis; sporulis oblongis obtusis v. utrinque leviter attenuatis 5-7-septatis, septisque verticaliter divisis, 25-40 μ. longis.

Hab, in ramulis, New Jersey in America septentr.

32. Camarosporium papillatum (Pr.) Sacc. Sporocadus papillatus Pr. 2522 Fungi Hoyersw. n. 51. — Perithecius gregariis, oblongis, ellipticis, papillatis, polymorphisque atris; basidiis minutis, albis; sporulis oblongis, fuscis, utrinque subacutis, transversim septatis sæpeque longitudinaliter.

Hab. in ramis arborum frondosarum decorticatis, Hoyerswerda.

. II. In foliis Dicotyledonearum lignosarum.

33. Camarosporium Tini Sacc. Mich. I. p. 209 sub *Hendersonia Tini*. 2523 — Peritheciis foliicolis, punctiformibus, innato-erumpentibus, globulosis nigris; sporulis initio stipitellatis, $12 \approx 7$, 3-septato-muriformibus, dilute fuligineis.

Hab. in foliis languidis Viburni Tini, Selva in Ital. bor.

34. Camarosporium Lantanæ (Fleisch.) Sacc. Hendersonia Lantanæ 2524 Fleisch. in Rabh. Fung. Eur. 1255, Hedwig. 1869, p. 89. — Peritheciis globosis, inter pilos matricis liberis, ut videtur, astomis; sporulis oblongis tri-raro biseptatis, fuscis longitudinaliterque septatis, 12-18 = 8.

Hab. ad folia Viburni Lantanæ in Germania.

35. Camarosporium Cookeanum (Speg.) Sacc. Hendersonia Cookea- 2525 na Speg. Amp. p. 27. — Foliicolum, in maculis cinereo-albicantibus gregarium, sub epidermide nidulans; peritheciis e globoso-lenticularibus, umbonatis, glabris, contextu densiuscule parenchymatico celluloso, ostiolo impresso pertuso, $180-190~\mu$. diam. atris; sporulis oblongo-ellipsoideis, 3-4-septatis, muriformibus ad septanon vel vix constrictis, flavidis, basidiis papilliformibus suffultis, paraphysibus hyalinis crassis, septulatis guttulatis, obvolutis, $18-22\approx 10$.

Hab. in foliis Vitis viniferæ, socià Pleosporâ herbarum, Conegliano in Italia boreali.

36. Camarosporium oreades (Dur. et Mont.) Sacc. Hendersonia orea-2526 des Dur. et Mont. Fl. Alg. p. 571. Sphæria oreades Fr. in Duby Bot. Gall. II. p. 696. Dichomera oreades Cooke Præc. Hend. p. 24. — Peritheciis minimis globosis, astomis, nigris, intus albis, in macula orbiculari amphigena, exarida, elevata, applanata, griseolutescente aggregatis aut annulatim dispositis; sporulis basidiis brevibus fultis, majusculis ovoideis oblongisve transverse (et longitudinaliter) bi-triseptatis.

Hab. in foliis semiemortuis v. languescentibus Quercus cocciferæ. Q. pubescentis etc. in Gallia, Belgio, Britannia.

37. Camarosporium variabile (B. et C.) Sacc. Hendersonia variabi2527
lis B. et C. North Amer. Fungi n. 426. — Maculis orbicularibus
pallidis; peritheciis punctiformibus epidermide tectis; sporulis utrinque obtusis triseptatis variis, 30-60 µ. longis, septo longitudinali
hinc v. inde divisis.

Hab. in foliis Quercus obtusilobæ in Carolina inferiore
— «An diversum a Camar. oreade?»

38. Camarosporium pithyum Sacc. Rouss. et Bomm. Misc. Myc. F. 2528
Belg. n. 12. — Peritheciis subsparsis, globoso-lenticularibus, epidermide initio velatis, 1/2 mill. diam., poro pertusis; sporulis oblongo-ellipsoideis, 3-septatis parceque muriformibus, ad septa non constrictis, 18-20 = 8-10, fuligineis, basidiis brevissimis hyalinis suffultis.

Hab. in foliis Araucariæ imbricatæ, sæpius epiphylla, pr. Bruxelles Belgii. — A C. suseganensi differt peritheciis paullo majoribus et defectu maculæ matricalis.

III. In caulibus foliisque Dicotyledonearum herbacearum.

39. Camarosporium Compositarum (C. et Harkn.) Sacc. Dichomera 2529 Compositarum C. et Harkn. Grev. 1880, p. 7. — Sparsum, erumpens, atrum, opacum, obtusis; sporulis ovatis 2-3-septatis, muriformibus atro-fuscis, demum opacis, 20 = 14.

Hab. in caulibus Artemisiæ et Achilleæ in California.

40. Camarosporium æquivocum (Pass.) Sacc. Dichomera æquivoca 2530 Passer. Erb. Critt. Ital. Ser. II. n. 1391. — Peritheciis discretis, superficialibus, celluloso-contextis; sporulis parvulis fuscis subglobosis, ut plurimum 7-8 μ. diam., uni- vel biseptatis vel sæpius radiatim septatis, aut etiam ellipticis, triseptato-muriformibus, et tunc 10 ≈ 5.

Hab. in caulibus siccis Artemisæ camphoratæ, Vigheffio prope Parma Italiæ (Passerini).

41. Camarosporium Lycii Sacc. Syll. II. p. 241. Hendersonia..... 2531 Hazsl. Sph. Lyc. p. 449, t. XV. f. 19-21. — Peritheciis hinc inde confertis, erumpentibus, globoso-papillatis, pilis molliusculis vestitis, ostiolo longiusculo pertuso; sporulis ellipsoideis, utrinque rotundatis, 3-septato-muriformibus, ad septa haud constrictis, fuligineis; basidiis bacillaribus sporulà paullo longioribus.

Hab. in ramulis Lycii barbari in Hungaria. — Pycnidium Karstenulæ variantis (Hazsl.) Sacc.

42. Camarosporium quaternatum (Hazsl.) Sacc. Syll. II. p. 329. Clin. 2532 terium Lycii Hazsl. Sph. Lyc. p. 451, t. XIV. fig. 9-12. — Peritheciis globoso-conicis pertusis, hirtellis; sporulis elliptico-cuboideis, sæpe cruciatim divisis varieve muriformibus, fuscis; basidiis bacillari-clavatis, articulatis, hyalinis.

Sphærioideæ, Dictyosporæ, Camarosporium.

468

Hab. in ramulis Lycii barbari in Hungaria, socio st. ascophoro Fenestella Lycii.

43. Camarosporium Hazslinszkyi Sacc. Stilbosporce sp. Hazsl, Sph. 2533 Lyc. p. 449, t. XV. f. 13-18. - Peritheciis hinc inde subaggregatis v. subsparsis, globoso-depressis, erumpentibus, apice albido latiuscule pertusis, setulis rigidulis ubique vestitis; sporulis tereti-fusoideis acutiusculis, 3-septato-muriformibus, ad septa denique constrictis, fuligineis; basidiis bacillaribus, sporulam subæquantibus. articulatis, hyalinis.

Hab. in ramulis Lycii barbari in Hungaria.

44. Camarosporium Galiorum (C. et Hark.) Sacc. Hendersonia Ga. 2534 liorum C. et Hark. Califor. Fungi in Grev. 1880, p. 7. - Sparsum, atrum, prominulum, demum erumpens; sporulis subellipticis. utrinque attenuatis, fuscis, triseptatis, cellula pænultima longitudinaliter divisà, $20 \approx 8$.

Hab, in caulibus Galiorum in California.

45. Camarosporium suseganense Sacc. et Sp. in Mich. I. p. 209. (sub 2535 Hendersonia). — Foliicolum; maculis albis, sinuosis; peritheciis globoso-lenticularibus, amphigenis, 100-150 μ. diam., pertusis; contextu parenchymatico, atro-fusco; sporulis ovoideis, inæqualibus. 15-20 = 8-10, 2-4-septatis muriformibusque, fuligineis.

Hab. in foliis Capparidis rupestris, Susegana in Italia

boreali (Spegazzini).

46. Camarosporium Phaceliæ (C. et Hark.) Sacc. Dichomera Pha- 2536 celiæ C. et Harkn. in Grevillea 1880, p. 7. - Sparsum, atrum, erumpens, opacum, obtusum; sporulis subglobosis vel breviter ellipticis, atro fuscis, transverse et longitudinaliter 1-2-septatis, 12 = 9.

Hab. in caulibus Phaceliæ in California. - Sporulæ inter-

dum ita opacæ ut septa conspici nequeant.

47. Camarosporium Penzigi Sacc. Mich. II. p. 143. — Peritheciis gre- 2537 gariis, subcutaneis, prominulis, e globoso obtuse conoideis, 1/8-1/6 mill. diam.; sporulis ovoideis v. suboblongis, inæqualibus, 14-16 = 8-10, inæqualiter-2-3-septato-muriformibus, ad septa vix constrictis, fuligineis.

Hab. in scapis Statices Schrenkianæ F. et. M. ex Sangoria (Herb. Patav.). - Camarosp. suseganensi S. et S. affine.

48. Camarosporium Camphorosmæ (Cast.) Sacc. Sphæria Campho- 2538 rosmæ Cast. Mars. p. 172. Hendersonia Camphorosmæ Mont. in Cast. Cat. Mars. p. 46, et Syll. n. 938. - Peritheciis tectis, prominulis, ovoideo-depressis, sparsis atris poroque pertusis; sporulis

Sphærioideæ, Dictyosporæ, Camarosporium.

469

oblongo-obovatis brevibus fuscis, transversim longitrorsumque septis subternis divisis.

Hab. in caule Camphorosmæ Monspeliacæ in Gallia australi (Castagne).

49. Camarosporium Roumeguerii Sacc. Mich. II. p. 112. — Perithe- 2539 ciis sparsis, globuloso-depressis, papillulatis, epidermide velatis, 1/10 mill. diam., ochraceo-celluloso-contextis; sporulis ovoideo-subangulosis valde inæqualibus, 18-20 ≈ 8, 3-4-septato-muriformibus, melleis.

Hab. in ramulis subvivis Salicorniæ herbaceæ, La Nouvelle in Gallia (Roumeguère), Salicorniæ peruvianæ en la Isla de los Leones in Patagonia (Spegazzini). — β . Kochiæ Sacc. Mich. II. p. 351: sporulis $12-15\approx 8-10$, varie 2-4-clathrato-septatis, fuligineis, basidiis filiformibus simplicibus ramulosisve 20-25 long. suffultis. In caulibus Kochiæ in Gallia australi.

50. Camarosporium patagonicum Sp. F. Argent. Pug. III. n. 126. — 2540 Peritheciis sparsis, minutis, 90-110 μ. d., lenticularibus, primo tectis dein erumpentibus, atris, membranaceis, contextu olivaceo, basi hyphis radicantibus exilibus ornatis; sporulis versiformibus ellipticis v. subglobosis, 3-7 horizontaliter, 5-6 verticaliter septatis, ad septum medium non v. constrictis, 20-35 ≈ 12-18, fuligineis.

Hab. ad folia viva v. languida Atriplicis nov. sp. en la Isla de los Leones in Patagonia (C. Berg).

IV. In Monocotyledoneis, Acotyledoneis chartaque.

51. Camarosporium minutulum (Dur. et Lév.) Sacc. Hendersonia minutula Dur. et Lév. in Flor. d'Alger. pag. 571. — Peritheciis innatis sparsis, 300 μ . diam., globosis, minutis nigris tomento candido obtectis, ostiolis erumpentibus halone pallida cinctis; sporulis ovoideo-oblongis 3-4 transversim 2-longitrorsum septatis, fuscis, $16 \approx 7.5$.

Hab. in foliis vaginisque Arundinis giganteæ in consortio Fusarii abnormis circa Alger in Africa (Durieu).

52. Camarosporium Stephensii (B. et Br.) Sacc. Hendersonia Ste. 2542 phensii B. et Br. in Anu. N. H. n. 502. — Peritheciis irregularibus, oblongis, membranaceis, lineatim dispositis et epidermide brunnea dein longitudinaliter fissa tectis; sporulis latis, ovatis, 3-septatis crebreque reticulato-muriformibus.

Hab: in stipitibus Pteridis aquilinæ, Bristol in Anglia.
53. Camarosporium charticolum (Speg.) Sacc. Hendersonia charti- 2543

cola Speg. in Sacc. Mich. I. p. 483. - Peritheciis innatis, lenticularibus vel subglobosis, primo tectis dein erumpentibus, 120-150. contextu membranaceo-parenchymatico denso, fuligineo, subopaco: sporulis oblongo-ellipticis, quandoque clavulatis, 4-septatis. ad septa leniter constrictis, septo longitudinali quandoque donatis. 40 ≈ 15-16, primo fumose hyalinis, dein subfuscescentibus.

Hab. ad chartam stercoratam putrescentem in locis umbrosis, Conegliano in Ital. bor.

- CYTOSPORIUM Peck Bot. Gazett. Jun. 1879, p. 171 (sub nomine hybrido Cellulosporium) (Etym. cytos cavitas, cellula, et spora). - Perithecia superficialia v. basi insculpta, epixyla, globulosa, subcarbonacea, atra, papillata v. subastoma vageque dehiscentia. Sporulæ ovoideæ v. oblongæ, 2-pluri-septato-muriformes, fuligineæ. - Est mihi hoc genus tamquam Camarosporium subsuperficiale, xylogenum.
- 1. Cytosporium sphærosporum Peck Bot. Gaz. Jun. 1879, p. 171. 2544 - Peritheciis superficialibus, subglobosis, 250-450 μ. diam., fragilibus, nigris; sporulis subglobosis vel late ellipticis, coloratis, cellulosis, 20-30 \(\mu\). longis.

Hab. in ligno corrupto, Illinois Americae borealis. — Habitus fere Melanommatis cujusdam.

2. Cytosporium basitrichum Sacc. in Mich. I. p. 516 sub Henderso- 2545 nia. — Peritheciis subsuperficialibus, gregariis e globoso depressis, ¹/₃-¹/₂ mill. diam., strigoso-vestitis, vix papillatis, nigris; pilis septulatis olivaceis; sporulis ovato-oblongis, 3-septato-muriformibus, $18 \approx 8-9$, non constrictis, initio flavis dein fuligineo-olivaceis, basidiis subnullis suffultis.

Hab. in ligno putri Evonymi, Rouen in Gallia (LETENDRE). - Affine Camarosp. incrustanti Sacc. sed perithecia vestita nec glabra.

ENDOBOTRYA Berk. et Curt. North Am. Fung. n. 457 (Etym. endon intus, et botrys racemus). - Perithecia cortice abdita. Sporulæ clavatæ, pedunculatæ; episporium reticulatum; endosporium e cellulis globosis nucleatis transversim subseriatis.

1. Endobotrya elegans Berk. et Curt. North Amer. Fungi n. 457. 2546 - Peritheciis cortice nidulantibus; sporulis clavatis, stipitatis, 50 μ. longis, in globulum nigrum erumpentibus; episporio hyalino,

Sphærioideæ, Dictyosporæ, Dichomera.

471

initio continuo dein reticulato; endosporio ex articulis globosis, nucleatis, transverse seriatis, denique secedentibus, fuscis.

Hab. in ramis fagineis, Maine Americæ borealis. — «Cum Thyrsidio nonnullis notis convenire mihi videtur».

- DICHOMERA Cooke Præc. Hend. pag. 24 p. p. Sacc. Mich. II. pag. 8 (Etym. dichos dupliciter, et meros pars, articulus) Staurosphæria Rabenh. et Kickx p. p. Hercospora Preuss, nec alior. Perithecia stromate dothideaceo, pulvinato, erumpente subimmersa, globulosa, papillulata. Sporulæ globulosæ v. ellipsoideæ, 2-4-septatomurales v. sæpius radiatim v. cruciatim 3-6-septatæ, fuligineæ, stipitellatæ. Species plurimæ potius unius speciei varietates.
- 1. Dichomera Saubinetii (Mont.) Cooke Præc. Henders. p. 24, Henders. p. 24, Henders. p. 24, Henders. p. 263, et Cent. VI. n. 93, l. c. Dothideoides, erumpens, elliptico-subrotunda, planiuscula, atra opaca: peritheciis stromate fusco-nigrescente immersis polystichis, superficialibus albo-farctis, alte demersis, brunneis; sporulis subglobosis 8-10 u. diam. vel 11-12 × 8-9, 2-septato-muriformibus v. sæpius radiatim 3-5-septatis, ad septa leniter constrictis, fuligineis, initio basidiis cylindraceis sporula brevioribus, hyalinis fultis.

Hab. in ramis Rhamni, Sambuci, Quercus in Gallia, Italia bor., Britannia.

2. Dichomera Rhamni (West.) Sacc. Staurosphæria Rhamni West. 2548 Bul. ac. roy. belg. II. ser. t. VII. n. 5 cum ic. — Peritheciis aggregatis, nigris, membranaceis, immersis, dein superficialibus epidermide rupta cinctis eamque pustulatim elevantibus; ostiolo papilliformi; sporulis numerosis, rotundatis vel irregularibus brunneis, 2-3-4-locularibus, septis ad centrum convergentibus, sporulam stellatam sistentibus.

Hab. in ramulis Rhamni Frangulæ in Belgio (Tosquiner).

3. Dichomera salicina (Vize) Sacc. Hendersonia salicina Vize in 2549 Grevill. t. 97, fig. 17. — Gregaria, erumpens; peritheciis nigris, applanatis, confluentibus v. dothideoideis; sporulis ellipticis, triseptatis, plerumque longitudinaliter divisis, brunneis, 15-22 ≥ 8-10.

Hab. in ramis vetustis salicinis, Forden Britanniæ.

4. Dichomera mutabilis (Berk. et Br.) Sacc. Hendersonia mutabilis 2550 C. et Br. Ann. N. H. n. 414. — Pustulis depressis, ellipticis, nigris intus pluricellularibus, subcutaneis et vix erumpentibus; sporulis oblongo-ellipticis, 3-4-septatis et muriformibus.

Hab. in ramulis emortuis Platani et Coryli in Anglia et Germania.

5. Dichomera sphærosperma (B. et C.) Sacc. Hendersonia sphæro-2551 sperma B. et C. North Amer. Fungi n. 424 bis. — Pustulis epidermide cinctis, pluricellulosis; sporulis sphæricis, longe pedicellatis, septis obliquis horizontalibusque divisis, brunneis.

Hab. in ramis Fraxini in Pensylvania America bor.

6. Dichomera Tiliæ (Therry) Sacc. Staurosphæria Tiliæ Therry Rev. 2552 myc. V. p. 30. — Stromatibus epidermide tectis dein eâ ruptâ cinctis, pustuliformibus, numerosis, aggregatis, 3-7-locularibus, loculis ostiolo papilliformi donatis; sporulis numerosis, initio sphæricis, granulosis, hyalinis dein brunneis 1-3-septatis, ovalibus vel ovoideis cruciato-septatis.

Hab. in ramulis Tiliæ in Gallia (THERRY).

7. Dichomera stromatica (Preuss) Sacc. Hercospora stromanca 2553 Preuss Fungi Hoyersw. n. 20. — Stromate atro, cortici insidente; peritheciis plurimis, sphæricis, atris inclusis; basidiis (e floceis strati suffultorii ortis) albis; sporulis oblongis, transverse et longitudinaliter septatis, cellulosis, fuscis.

Hab. in cortice arborum frondosarum, Hoyerswerda. — Sporulæ dein in globulum erumpentes dicuntur.

REPERTORIUM

SPHÆRIOIDEARUM DICTYOSPORARUM

SECUNDUM MATRICES

Obs. C. indicat Camarosporium. — Cy. Cytosporium. — E. Endobotrya.
 D. Dichomera.

Numeri 2491 — 2553 citantur 491 — 553

Abies — C. 520.

Achillea — C. 529.

Allanthus — C. 513.

Alnus — C. 514.

Araucaria — C. 528.

Artemisia — C. 529. 530.

Arundo — C. 541.

Atriplex — C. 540.

Camphorosma — C. 538.
Capparis — C. 535.
Celastrus — C. 498.
Cereus — C. 509.
Colutea — C. 494. 496.
Cornus — C. 511.
Coronilla — C. 494.
Corylus — D. 550.
Cydonia — C. 505.
Cytisus — C. 496.

Evonymus - Cy. 545.

Fagus — E. 546. Fraxinus — D. 551.

Galium — C. 534. Gleditschia — C. 493.

Hedera — C. 507.

Kochia — C. 539.

Laurus — C. 494. Lonicera — C. 499. 500. Lycium — C. 531. 532. 533.

Morus - C. 516.

Phacelia — C. 536.

Philadelphus — C. 501.

Pinus — C. 519.

Platanus — D. 550.

Prunus — C. 504.

Pteris — C. 542.

Quercus - C. 515. 526. 527. - D. 547.

Rhus — C. 511. 512. Robinia — C. 491. 492. Rosa — C. 502. Rubus — C. 503. Ruta — C. 499.

Salicornia — C. 539. Salix — C. 517. 518. — D. 549. Sambucus — D. 547. Sarothamnus — C. 497. Statice — C. 537.

Tilia - C. 506. - D. 552.

Viburnum — C. 523. 524. Viscum — C. 510. Vitis — C. 508. 525.

Sect. 7. Scolecosporæ Sacc.

Sporulæ bacillares, filiformes vel elongato-fusoideæ, continuæ vel septatæ, hyalinæ vel chlorinæ.

Clavis analytica generum.

- I. Perithecia membranacea vel subcarbonacea.
 - A) Simplices, non stromaticæ.
 - & Perithecia erostria.

Septoria. Perithecia exigua, lenticularia, completa, pertusa non papillata, sæpissime maculicola et foliicola; sporulæ sæpius angustissimæ.

Phleospora. Perithecia globoso-lenticularia sed spuria vel incompleta, foliicola, vix maculicola; sporulæ crassiusculæ.

Rhabdospora. Perithecia globulosa vel depressa, completa, sæpius papillata, rami-caulicola, non vel vix maculicola.

Phlyctwna. Perithecia globoso-oblonga, depressa, majuscula, sed superne incompleta et subhysterioideo-dehiscentia, rami-caulicola.

Gelatinosporium. Perithecia globulosa, in sicco rugosa, atra, erumpentia, vertice late hiantia et massam sporaceam gelatinosam ostendentia.

§§ Perithecia rostrata.

Sphærographium. Sporulæ fusoideo-filiformes, continuæ, hyalinæ. Cornularia. Sporulæ fusoideo-filiformes, septatæ, hyalinæ vel chlorinæ.

B) Stromaticæ.

Eriospora. Sporulæ in basidio communi 4-6-fasciculato-acrogenæ. Graminicola. Dilophospora. Sporulæ discretæ, utrinque setuloso-penicillatæ. Graminicola. Cytosporina. Sporulæ discretæ, muticæ. Est Cytospora scolecospora.

II. Perithecia subsuberosa, spuria, sæpe furfuracea.

Micula. Perithecia discreta, gregaria, globoso-conica, erumpentia.

Micropera. Perithecia dense aggregata, subinæqualia, subelongata, erumpentia.

SEPTORIA Fr. S. M. III. p. 480, emend. Sacc. Mich. II. p. 6. (Etymas septo, quia sporulæ typice septatæ). Helicobolus Wallr. p. p., Filospora Preuss p. p., Spilosphæria Rabenh., Ascospora Mont., Rhabdospora Dur. et Mont. p. p. — Perithecia subcuticularia, in areis decoloratis foliorum typice nascentia, globoso-lenticularia, poro pertusa, laxiuscule membranacea. Sporulæ bacillares vet filiformes, pluriseptatæ vel pluriguttulatæ, rarius eguttulatæ, hyalinæ. Basidia nulla vel exigua. — Est quasi Phyllosticta vel Ascochyta scolecospora.

I. In Dicotyledoneis.
A) Foliicolæ.
§ In plantis lignosis.

Septoria Magnoliæ Cooke F. Texas p. 142. — Epiphylla; peri- 2554
theciis atris, subimmersis, in maculis irregularibus brunneis congestis; sporulis linearibus, nucleatis 25-30 μ. longis.

Hab. in foliis Magnoliæ grandifloræ, Houston Texas in America bor.

2. Septoria niphostoma B. et C. North Amer. Fungi n. 447 bis. — Pe- 2555 ritheciis sparsis nitidis nigris, centro candidis; sporulis rectis utrinque obtusiusculis, 25 μ . longis.

Hab. in foliis coriaceis Magnoliæ grandifloræ in Carolina inferiore, Gainesville, Florida.

3. Septoria Berberidis Niessl, in Sacc. Mich. I. p. 177 M. V. n. 2556 1015. — Maculis arescendo fuscidulis, zona atropurpurea cinctis, subcircularibus, epiphyllis; peritheciis aggregatis e globoso lenticularibus, poro pertusis; sporulis filiformi-clavatis, hine acutis, illinc obtusis, 45 ≈ 2½, pluri-guttulatis, hyalinis.

Hab. in foliis Berberidis vulgaris, Conegliano in Italia boreali (Spegazzini) et in Moravia (Niessl).

4. Septoria Mahoniæ Passer. F. Parm. Sept. n. 7. — Maculis mini- 2557 mis, epipyllis, discoideis, centro exaridis, fusco-marginatis, perithecium singulum, punctiforme, atrum foventibus; sporulis fusiformibus, plus minusve arcuatis, integris, achrois, endoplasmate opaco, 20 ≈ 2.7.

Hab. in foliis languentibus Mahoniæ Aquifolii, socià Phyllosticta Mahoniæ, Sacc. et Sp., Parma Italiæ bor.

5. Septoria Corynocarpi Thüm. Contr. Myc. Lusit. n. 390. — Peri- 2558 theciis epiphyllis, magnis, lenticularibus, emersis, gregariis, fusconigrescentibus in macula elliptico-orbiculata, arescendo albida, fuscescenti-cincta, subtus albofusca; sporulis rectis vel interdum leniter curvatis, cylindricis, obsolete bi-triseptatis vel plerumque triguttulatis, utrinque rotundato-obtusis, hyalinis, 15 = 5.

Hab. in foliis vivis languidisve Corynocarpi levigatæ in horto bot. Coimbra Lusitaniæ (Moller).

6. Septoria Anodæ Speg. F. Arg. Pug. IV. n. 283. — Maculis magnitudine ludentibus 1-3 mill. diam., orbicularibus v. irregulariter et obtuse angulosis, sæpe confluentibus, candidis, determinatis, areola latiuscula violaceo-purpurascenti-cinctis; peritheciis epiphyllis, cen-

tralibus minutissimis lenticularibus, 70-80 p. diam. atris, membranaceis, contextu densiuscule parenchymatico, olivaceo-fuligineo: sporulis filiformibus, 30-50 = 1-1,5, 1-4-septulatis, hyalinis.

Hab, in foliis languidis Anodæ speciei cujusdam in hortis. Boca del Riachuelo Argentinæ.

7. Septoria Hibisci Sacc. Mich. I. p. 173. — Maculis arescendo de- 2560 albatis, fusco-cinctis, subcircularibus irregularibusque; peritheciis punctiformibus, lenticularibus 50-60 µ. diam., poro latiusculo pertusis; sporulis bacillaribus leniter curvatis, 15-20 = 2-21/4, continuis. hvalinis.

Hab. in pagina sup. foliorum Hibisci syriaci, Vittorio in

Italia boreali, raro.

8. Septoria simillima Thum. Contr. Funghi Litor. n. 347. — Peri- 2561 theciis hypophyllis, gregariis, conicis, vix emersis, mediis, nigris, sine macula distincta, sed in folii parte emortua, decolorata, sordide fusca, arida; sporulis bacillari-filiformibus, leniter curvis, continuis, utrinque obtusiusculis, hyalinis, $12-16 \approx 2-2.5$.

Hab. ad folia languida Hibisci rosæ-sinensis, in territorio Gorizia. — Septoria Hibisci Sacc. forma et magnitudine sporularum eximie quadrat, sed maculis deficientibus valde differt!

9. Septoria Tiliæ Westend. Exs. n. 956. Kickx Fl. Fland. I. p. 430. 2562 Pass. Sept. Parm. n. 14. - Peritheciis amphigenis in macula fusca dein centro expallente, sparsis vel circinatis; sporulis bacillaribus rectis vel leniter curvis, 3-4-septatis, ut plurimum 35-40 $\approx 2-2^{1}/_{2}$, interdum multo longioribus.

Hab. in foliis vivis languidisve Tiliæ europææ in Italia. Austria et Belgio. — Septoria Tiliæ Auersw. verisimiliter eadem species est.

10. Septoria ochraceo-maculans Thum. Contr. Myc. Lusit. n. 388. - 2563 Peritheciis sparsis, hypophyllis vel amphigenis, sæpe solitariis, globosis, submagnis, atris in macula valde irregulari, ochraceo-arescente, anguste sed distincte fusco-purpureo-cincta; sporulis oblongo-cylindraceis, rectis vel leniter arcuatis, hyalinis, medio uniseptatis constrictisve, quadriguttulatis, guttulis magnis, 12 = 4.

Hab. ad folia viva Brachychitonis populnei, Coimbra Lusitaniæ in horto botanico (Moller).

11. Septoria cinerescens (Dur. et Mont.) Sacc. Rhabdospora cinerescens Dur. et Mont. Fl. Alg. I. p. 592, Mont. Syll. crypt. p. 278. - Hypophylla; peritheciis congregatis depressis innatis, 100-150 μ. diam., epidermide nigrefacta initio tectis, eadem demum stella-

tim ruptà cinctis, apice poro pertusis; sporulis cylindraceo-clavulatis vel utrinque attenuatis 3-4-septatis, $50 \approx 6-7$, rectis v. leniter flexuosis.

Hab. in foliis dejectis Citri Aurantii, Bouzareah Algeriæ.
12. Septoria Arethusa Penz. in Sacc. Mich. II. p. 434. — Maculis al- 2565 bis vel ochraceis, versiformibus; peritheciis minutis, 70-100 μ. d., demum erumpentibus, depressis, atro-brunneis; sporulis elongato-fusiformibus, leniter curvulis, utrinque acutatis, continuis vel 1-

3-septatis, ad septa haud constrictis, $16-25 \approx 2-3.5$.

Hab. in maculis aridis foliorum vivorum Citri in frigidariis, Padova, Cattajo Ital. bor. — A Sept. Limonum sporulis duplo longioribus imprimis diversa.

13. Septoria Citri Pass. Flora 1877, n. 13 et in Thüm., Mycoth. univ. 2566 n. 495. Mich. II. p. 173 et 435. — Peritheciis minutis 50-80 μ. diam. fuscis, tectis, nunc maculiformiter aggregatis vel etiam late sparsis; sporulis pro ratione generis brevibus, subfusiformibus, continuis vel sæpe medio septatis, rectis, hyalinis, 14-18 ≈ 2-3.

Hab. in foliis languidis aridisque Citrorum in Italia, Hispania, Lusitania, Gallia, Istria. — β . minor Penz. in Mich. l. c.: sporulis fusiformibus frequentius medio septatis, hyalinis, $10-14 \pm 2.5$ —

3. Cum typo.

14. Septoria Limonum Pass. Funghi Parmensi enumerati, in Atti 2567 Soc. Crittog. Ital. II. p. 23, Sacc. Mich. II. p. 437. Septoria Hesperidearum Catt. Mic. Agrum. p. 11. — Peritheciis punctiformibus, nigris depressis, 80-90 µ. diam., in maculis discoideis aggregatis; sporulis cylindricis, rectis, tenuibus, 8-15 ≈ 1,5-2, continuis.

Hab. in foliis fructibusque immaturis Citrorum, Parma (Passerini), Pavia (Cattaneo), Bologna (Gibelli), Padova (Penzic).

15. Septoria Cattanei Thüm. Fungor. novor. exoticorum Decas al- 2568 tera n. 14, Sacc. Mich. II. p. 435. — Peritheciis amphigenis, dense gregariis, conicis, atris, primo epidermide tectis, parvulis in macula amphigena, sæpe marginali, arescendo ochracea, fusco anguste cincta; sporulis cylindraceis, rectis vel subarcuatis, utrinque obtusatis, enucleolatis, uniseptatis, achrois, 9-12 ≈ 2-3.

Hab. in foliis vivis Citri medicæ spontaneæ, Canara, Ind. orient. (Doct. Keck).

16. Septoria Tibia Penz. in Sacc. Mich. II. p. 439. — Maculis fuscis 2569 vel brunneis; peritheciis dense aggregatis, concentrice dispositis, minutis, 100-120 μ. diam., epidermide tectis, demum erumpentibus, globoso-conicis; sporulis brevibus, 10-14 ≈ 3-3,4, fusiformi-

bus, rectis, sæpius inæquilateralibus, utrinque obtusiusculis, pluriguttulatis, continuis vel (rarius) uniseptatis.

Hab. in foliis vivis Citri Limonum var. Limetta, in frigidariis, Stra prope Patavium in Ital. bor. (O. Penzig). — β. Limoniæ Penz. l. c. maculis arescendo dealbatis; cetera speciei. In foliis semiemortuis Limoniæ australis cultæ in agro veneto.

17. Septoria sicula Penz. in Sacc. Mich. II. p. 438. — Maculis ob- 2570 soletis vel nullis; peritheciis laxe gregariis, epiphyllis, maiusculis, demum erumpentibus, depressis, brunneolis, circa ostiolum nigrescentibus; sporulis bacillaribus, rectis, utrinque rotundatis, continuis vel 1-2-septatis, hyalinis, 30-42 = 3,5-4, basidiis hyalinis, rectis, continuis, 8-10 = 3-3,5.

Hab. in foliis languidis vel delapsis Citri Limonum, Carini Siciliæ (V. Beltrani).

18. Septoria Salliæ W. R. Ger. Torr. Bot. Cl. Jun. 1874. — Macu- 2571 lis majusculis, subcircularibus, pallidis, linea rubro-brunnea cinctis; peritheciis minutis, sparsis, nigricantibus; sporulis bacillaribus, hyalinis, curvulis, $18 \approx 2^{1}/_{2}$, continuis.

Hab. in foliis Aceris saccharini in Amer. boreali.

19. Septoria Pseudoplatani Rob. et Desm. 14 Not. 6, p. 21. — Ma- 2572 culis amphigenis, minutissimis, sparsis, suborbiculatis, rufis v. subochraceis in ambitu luteolis; peritheciis epiphyllis, paucis, conglomeratis, brunneis, latiuscule apertis convexis, dein collabascendo concavis; cirris albidis; sporulis bacillaribus, curvulis, 3-septatis. hyalinis, 45-55 \(\approx 3. \)

Hab. in foliis subvivis Aceris Pseudoplatani in Gallia et Germania.

20. Septoria seminalis Sacc. Mich. II. p. 167. — Maculis margina- 2573 libus oblongis, subochraceis; peritheciis gregariis, epiphyllis, lenticularibus, tectis, 90 μ . diam. pertusis, contextu tenui-parenchymatico, ochraceo; sporulis bacillari-fusoideis, falcatis $20-25 \approx 1^1/_2$ - 2, utrinque acutis, guttulatis, hyalinis.

Hab. in folio seminali (cotyledone) languido Aceris campestris in horto patavino Ital. bor. (Bizzozero). — A Sept. Aceris, Sept. Pseudoplatani. Glæosporio acerino et truncatulo certe diversa.

21. Septoria acerina Peck 25 Rep. p. 87. — Maculis brunneis vel 2574 luteis centro brunneis, plerumque angulosis; peritheciis magnitudine et forma variis, collabentibus; sporulis filiformibus, curvatis, continuis vel indistincte septulatis, 32-40 \(\alpha\). longis.

Hab. in foliis Aceris striati, Keene Amer. bor.

22. Septoria acerella Sacc. Mich. II. p. 102 (Sept. acerina). — Ma- 2575 culis epiphyllis, angulosis, minutissimis, candidis; peritheciis parcis, lenticularibus, exiguis; sporulis bacillaribus, curvis 20-22 \(\pi 2\), subcontinuis, hyalinis.

Hab. in foliis emortuis v. languidis Aceris campestris, Saintes Galliæ (Brunaud). — Ab aliis speciebus acericolis diversa.

23. Septoria incondita Desm. in Ann. Sc. natur. 1853, XX. p. 95 2576 (forma acericola). — Maculis amphigenis, irregularibus, rufis aut brunneo-terreis, non limitatis, dein confluentibus; peritheciis hypophyllis, minutissimis, numerosis, rufo-olivaceis, dein intense brunneis, innato-prominulis, poro apertis, dein planiusculis; cirris albidis aut dilute corneis; sporulis elongatis tenuissimis rectis vel curvatis, sæpe obtusis, 4-nucleatis, 30-40 × 3.

Hab. in foliis annuis rigidioribus Acerum Pseudoplatani et Platanoidis in Gallia; in foliis Aceris campestris, Gradisca in Litor. Austr.

24. Septoria æsculina Thum. Symb. Myc. Austr. III. n. 64. — Peritheciis plerumque amphigenis, pro ratione magnis, solitariis, parcissimis, punctiformi-globulosis, atris, in macula parva arescendo candida perforataque, inferius dilute ochracea anguste atro-purpureo-cincta; sporulis numerosis arcuatis utrinque obtusis, ut videtur semper continuis, achrois, $36-44 \approx 3.5-5$.

Hab. in foliis vivis Æsculi Hippocastani, Kalksburg in Austria inf. — A Septoria Hippocastani et Septoria Æsculi valde diversa dicitur.

25. Septoria Hippocastani Berk. et Br. Ann. N. H. n. 434. — Ma- 2578 culis rufis; peritheciis punctiformibus; sporulis filiformibus curvis vel flexuosis, $55-60 \approx 2^{1}/_{2}$ continuis hyalinis; cirris minutis.

Mab. in foliis Æsculi Hippocastani, Parma Italiæ et in Britannia.

26. Septoria Æsculi (Lib.) West. Bull. Acad. Brux. 1851, p. 394. 2579 Kickx Fl. I. p. 431. Ascochyta Æsculi Libert. Exs. p. 154. — Maculis variis, arescendo rufescentibus; peritheciis lentiformibus, pertusis; sporulis bacillari-fusoideis, curvulis, 50-60 ≈ 3-3¹/₂ utrinque obtusiusculis, 3-4-septatis, hyalinis.

Hab. in foliis Æsculi in toto agro veneto et parmensi in Austria, Belgio, Gallia. — Sec. Passerini sporulæ tantum 32 ≈ 3-3,5.

27. Septoria ampelina B. et C. North Americ. Fungi n. 440. — Ma- 2580

culis rufulis, aliis brunneis stellatis intermixtis; sporulis linearibus curvatis, 30-50 μ. longis.

Hab. in foliis Vitis, Texas; in foliis Vitis vulpinæ, Aiken Carolina.

28. Septoria Badhami B. et Br. Ann. N. H. n. 748, t. XV. f. 9. - 2581 Peritheciis hinc inde maculiformiter sub-conglomeratis, brunneis amphigenis; sporulis clavatis, elongatis variis, crassiusculis, 50 μ . longis, minute granulosis, rarius 1-2-septatis, hyalinis.

Hab. in foliis Vitis in Britannia. — An species, quæ in Thum. Pilz. d. Weinst. p. 180, sequenti modo describitur, eadem sit, valde dubito. — Septoria Badhami Berk. et Br. Outl. of fungology p. 320. Exesporium Badhami Awd. Thüm. Pilze des Weinstockes p. 180. — Peritheciis parvulis, hypophyllis, dense gregariis in maculis irregularibus, subfuscis, obsolete marginatis sparsis, in foliorum pagina superiore maculas magnas late effusas, non limitatas violaceo-fuscas formantibus, globulosis, prominulis, setis rigidis, paucis tectis, atris; sporulis paucis, stipitatis, clavulatis, vertice rotundatis, basi angustatis, bi-vel triseptatis, ad septa non constrictis, dilute fuscescentibus, 16-18 ≈ 6-8. — Ad folia subviva languidave Vitis viniferæ in Thuringia (Fleischhak). — «Ап hæc potius Cercosporæ species?»

29. Septoria vineæ Passer. F. Parm. Sept. n. 22. — Peritheciis epi- 2582 phyllis in maculis exaridis, folium totum tandem marginantibus, hinc illinc aggregatis, maculas fuscas parvulas efficientibus vel sparsis; sporulis filiformibus rectis vel vix curvis, continuis, intus granulosis, 12-18 \(\sigma 1.5 \), hyalinis.

Hab. in foliis languescentibus Vitis viniferæ, Gajone pr. Parma Italiæ.

30. Septoria Melianthi Sacc. Mich. II. p. 624. — Maculis subcircu- 2583 laribus, crebris, minutis, ochraceis, atrocinctis; peritheciis amphigenis, parcis, globulosis, obtuse papillatis, prominulis, 110-120 μ . diam.; sporulis bacillaribus, curvulis, utrinque acutiusculis, 40-50 ≈3, spurie 3-septatis, hyalinis.

Hab. in foliis languidis Melianthi culti, Mortagne sur Gironde Galliæ (BRUNAUD).

31. Septoria Coriariæ Passer. Fungh. Parm. n. 28. — Peritheciis 2584 hypophyllis in maculis livido-fuscis irregularibus sparsis; sporulis bacillaribus rectis vel vix curvulis, septulatis hyalinis, $30-35 \approx 2.5$.

Hab. in foliis Coriariæ myrtifoliæ, Berceto in agro parmensi Italiæ.

32. Septoria Staphyleæ Passer. Fung. Parm. Sept. n. 26. — Peri- 2585 theciis in maculis rufis expansis arescentibus, hinc illinc aggregatis; sporulis tenuissimis integris, rectis vel arcuatis, hyalinis, 16-20 = 1.

Hab. in foliis languidis Staphyleæ pinnatæ, Parma Italiæ borealis.

33. Septoria Rhamni (Dur. et Mont.) Sacc. Rhabdospora Rhamni 2586 Dur. et Mont. Fl. Alg. I. p. 596, Mont. syll. crypt. pag. 279. — Amphigena; maculis albo-carneis, fusco-marginatis; peritheciis ovoideis 150 μ . diam., innato-prominulis tandem poro pertusis, epidermide rupta cinctis; sporulis bacillaribus curvulis, exilissimis, $40\text{-}50 \approx 2$.

Hab. in foliis Rhamni Alaterni prope Medeah in Algeria (Monard).

34. Septoria nitidula Dur, et Mont. Fl. Alg. I. p. 593. Rhabdospora 2587 nitidula Dur. et Mont. Syll. crypt. p. 278. — Epiphylla; peritheciis sphæricis in folio decolorato gregariis vel confluentibus 100-250 μ. diam., linea fusco-atra cinctis, nitidis, poro pertusis; sporulis linearibus rectis obsolete 4-8-septatis, 20 ≈ 4, sporophoris quartam earum magnitudinis partem æquantibus.

Hab. in foliis Rhamni Alaterni circa Bougie Algeriæ.

35. Septoria rhamnella Oud. Matériaux pour la Fl. mycolog. de la Néerlande II. p. 22. (Sept. Rhamni). — Maculis in foliis langue-scentibus flavescentibus rubro-variegatis subrotundis, nigrescentibus, area diu virescente circumdatis; peritheciis in pag. sup. folii in centro maculæ nunc solitariis, tunc binis vel ternis, exilissimis, parum emergentibus, poro apicali præditis; sporulis linearibus, parum curvatis, hyalinis, continuis, 10-20 ≈ 1,5, nonnumquam sub forma globuli albidi e poro perithecii egredientibus.

Hab. in foliis Rhamni Frangulæ, Tourbières prope Achttienhovem Hollandiæ. — An diversa a Sept. Frangulæ?

36. Septoria Frangulæ Guep in Sacc. Mich. II. p. 346. — Maculis epiphyllis, minutis, atro-rufis, circulo pallidiore cinctis; peritheciis paucis, lenticularibus; sporulis bacillaribus, longitudine variis, 18-25 = 2, subcontinuis, hyalinis.

Hab. in foliis languidis Rhamni Frangulæ in Gallia (MAL-BRANCHE).

37. Septoria rhamnigena Sacc. Mich. I. p. 180. — Maculis nullis; 2590 peritheciis hypophyllis, hinc inde dense gregariis, punctiformibus, prominulis, nigris; contextu parenchymatico fuligineo; sporulis ba-

2589

31

Sphærioideæ, Scolecosporæ, Septoria.

cillaribus, $20-25 \approx 1^{1}/_{2}-2$, utrinque rotundatis, curvulis, obsolete

guttulatis, hyalinis.

Hab. in foliis Rhamni catharticæ, Conegliano in Italia bor. (Spegazzini). — A Sept. Rhamni-catharticæ Ces. longe diversa. — β . Alaterni Sacc. Mich. II. p. 101, a typo differt sporulis minoribus, nempe $15-16 \approx 1^3/4-2$, arcuatis nubilosis, hyalinis. In foliis Rhamni Alaterni, Toulouse Galliæ.

38. Septoria cathartica Passer. F. Parm. Sept. n. 29. — Maculis 2591 exaridis irregularibus griseis fusco-cinctis; peritheciis punctiformibus sparsis, utrinque perspicuis, subtus ostiolo fusco emersis; sporulis bacillaribus, rectis vel curvis, 10-20 ≈ 2,5.

Hab. in foliis Rhamni catharticæ in agro Parmensi.

39. Septoria Rhamni-catharticæ Ces. in Kl. Herb. Myc. n. 1956. Sacc. 2592 Mich. I. p. 172. — Maculis epiphyllis arescendo expallentibus, atromarginatis; peritheciis punctiformibus, epiphyllis; sporulis cylindraceis, vehementer curvatis, 40-50 ≈ 1½-2, 2-4-septatis, hyalinis.

 $\it Hab.$ in foliis languidis Rhamni catharticæ, Vercelli et Treviso Italiæ bor. — $\it \beta.$ Rhamni saxatilis Sacc. Myc. Ven. n. 546: sporulis cylindraceo-clavulatis, 40-50 \approx 3, pluriguttulatis hyalinis.

In ejusdem foliis in agro Veneto.

40. Septoria Saccardiana Roum. F. Gall. n. 1886, Rev. Myc. IV. p. $_{2593}$ 22. Septoria Ascochytula Sacc. Mich. II. p. 625. — Peritheciis hypophyllis, hinc inde dense maculiformi-aggregatis, globoso-lenticularibus, 70-80 μ . diam., pertusis, epidermide velatis; sporulis tereti-fusoideis, $20-25\approx 2-2.5$, utrinque obtusiusculis, 1-septatis, haud constrictis, hyalinis.

Hab. in foliis languidis Rhamni Alaterni, Bone Algeriæ (Debeaux) et Nimes Galliæ (Roumeguère).

41. Septoria? Evonymi-japonicæ Passer. Fungh. Parm. Sept. n. 27. 2594

— Peritheciis amphigenis, sparsis tectis, pustulatim prominulis, vertice epidermidem radiatim vel denticulatim lacerantibus et marginulo albo coronatis; sporulis bacillaribus rectis, integris, hyalinis, 12-13 ≈ 2,5; basidiis non visis.

Hab. in foliis siccis Evonymi japonicæ, Parma Italiæ bor.
Ad Phomam Ilicis β. Evonymi accedit.

42. **Septoria Evonymi** Rabh. Flora 1848, p. 506. Sacc. Mich. I. p. 2595 172. — Maculis sæpius epiphyllis, arescendo pallentibus, latiusculis, vix marginatis; peritheciis punctiformi-lenticularibus, pertusis, parcis; sporulis filiformibus, lenissime curvulis, $20-25 \approx 1^{1}/_{2}$, parce obsoleteque septatis, hyalinis.

Hab. in foliis Evonymi europæi in Germania et Ital. bor, 2596

43. Septoria ascochytella Sacc. Mich. II. p. 280. — Maculis olivaceis vel lutescentibus, vagis; peritheciis hinc inde aggregatis, lenticularibus, punctiformibus, $100~\mu$. diam., poro pertusis; sporulis tereti-fusoideis, $12-15 \approx 1\frac{1}{2}-2$, rectis curvulisve, 1-septatis, hyalinis.

Hab. in foliis languidis Paliuri aculeati prope Padova

Ital. bor. (Bizzozero).

44. Septoria Zizyphi Sacc. Mich. I. p. 173. — Maculis arescendo al- 2597 bicantibus v. pallide ochraceis, fusco-marginatis, angulosis; peritheciis sparsis lenticularibus, punctiformibus, pertusis; sporulis filiformibus, 15 ≈ 1, leviter curvis, hyalinis.

Hab. in pag. super. foliorum Zizyphi vulgaris, Selva in

Italia boreali.

45. Septoria orthospora Lév. Ann. Sc. nat. 1848, p. 251. — Peri- 2598 theciis epiphyllis, sparsis, obtectis, globosis, intus extusque nigris; ostiolis pertusis; sporulis linearibus, rectis, continuis, utrinque obtusis, pellucidis.

Hab. in foliis Ilicis Aquifolii, Saint-Germain prope Pa-

risios in Gallia.

46. Septoria examinans B. et C. North Americ. Fungi n. 435 bis. — 2599 Peritheciis gregariis punctiformibus ocellatis in folio dealbato sitis; sporulis filiformibus flexuosis 25 μ. longis.

Hab. in foliis dealbatis Ilicis in America bor.

47. Septoria ilicifolia C. et. Ell. in Grevillea. — Peritheciis punctiformibus, atris, semiimmersis, e macula pallida fusco-cincta oriundis; sporulis minutissimis, hyalinis.

Hab. in foliis Ilicis, New Jersey Amer. bor.

48. Septoria Pistaciæ Desm. Ann. Sc. Nat. 1842, p. 112. — Amphigena; maculis parvis, numerosis, suborbiculatis, fuligineis; peritheciis innatis, minutissimis, nigris; cirris ochroleucis; sporulis linearibus rectis vel curvatis, 3-7 nucleolatis, plerumque 20 μ. long.

Hab. in foliis languescentibus Pistaciæ veræ in Gallia, et

P. Lentisci, Pola Istriæ.

Septoria rhoina B. et C. North Americ. Fungi n. 434 (S. Rhoi-2602 dis). — Maculis parvis albis, margine lato nigro cinctis; perithecio centrali; sporulis vermiformibus, 75 μ. longis, flexuosis.

Hab. in foliis Rhois Cotini etc., New England (Sprague), Fo-

restburgh, Buffalo Amer. bor. (Peck, Clinton).

50. Septoria? Rhois (Wallr.) Sacc. Helicobolus Rhois Wallr. Fl. Crypt.
 n. 3646. — Peritheciis membranaceis nigro-fuscis minutissimis

conglomeratis synphlæodeis, ex vertice tenuato stillam sporularum vermicelliformem lutescentem exerentibus.

Hab. in foliis languidis Rhois typhinæ in hortis Thuringiæ.

51. Septoria Leveillei Sacc. Sept. Rhois Lev. in Demid. Voy. p. 114, 2004 t. 5, f. 4 (non vidi), nec Wallr.

Hab. in foliis Rhois in Tauria.

52. Septoria irregularis Peck Bot. Gaz. 1880, p. 34. — Maculis mi- 2605 nutis, angulosis, confluentibus, initio in pag. sup. foliorum luteis dein rubro-brunneis, fusco-marginatis, in pag. infer. brunneis vel griseo-brunneis; peritheciis hypophyllis, quandoque amphigenis, irregularibus, nigris; sporulis numerosis, filiformibus, hyalinis, 30-45 μ. longis, subinde obsolete 1-septatis.

Hab. in foliis vivis Rhois Toxicodendri, Illinois Amer. bor.

53. Septoria Ceratoniæ Passer. Funghi Parm. Sept. ad n. 39 (in nota). 2606 - Peritheciis epiphyllis sparsis vel aggregatis, primo tectis, dein erumpentibus, atris, poro apertis; sporulis bacillaribus, rectis integris, obscure nucleolatis, hyalinis, 12-15 = 2-2,5.

Hab. in foliis putrescentibus Ceratoniæ Siliquæ, Licata

Siciliæ (Beltrani), Porto Maurizio Liguriæ (G. Gentile).

54. Septoria Cercidis Fr. in Lév. Ann. Sc. nat. 1848, p. 251. — Hy- 2607 pophylla; peritheciis innatis, punctiformibus, globosis, nigris, in maculam conglomeratis; cirro albido; sporulis longis linearibus, rectis vel flexuosis, 2-3-septatis, utrinque obtusis.

Hab. in foliis Cercidis Siliquastri in Delphinatu.

55. Septoria Siliquastri Passer, in Rabh. Fung. eur. 1878, Thum. 2608 Mycoth. univ. 995. Just Botan. Jahresbericht II. p. 338. — Maculis subcircularibus expallentibus; peritheciis sæpius epiphyllis, punctiformi-lenticularibus; sporulis longe filiformibus flexuosis et subtorulosis, continuis, intus granulosis.

Hab. in foliis subvivis Cercidis Siliquastri in agro par-

mensi et goritiensi.

56. Septoria Robiniæ Desmz. 17 Not. 6. p. 23. — Maculis irreguia- 2609 ribus e flavido exaridis; peritheciis minimis sparsis, sepultis, pallidis, cirro albido dehiscentibus; sporulis bacillaribus rectis vel leniter curvis, 25-28 = 2,5 continuis hyalinis.

Hab. in foliis languescentibus Robiniæ Pseudacaciæ in Gallia et Italia.

57. Septoria curvata (Rab. et Br.) Sacc. Septosporium curvatum Rab. 2610 et Braun, Krankh. d. Pflanz. p. 14, t. I. A. — Maculis imprimis hypophyllis, brunneis, subcircularibus v. oblongis; peritheciis glo-

bulosis, obtusis, prominulis, atris, mox late apertis; sporulis cylindraceis, curvulis, utrinque obtusiusculis, 1-2-septatis, hyalinis, $40-60 \approx 5-6$.

Hab. in foliis Robiniæ Pseudacaciæ, quæ mox elabuntur, in Germania, præcipue Berolini.

58. Septoria Cytisi Desm. 14. Not. 6. p. 24. — Maculis amphigenis, 2611 minutis, numerosis, albis, exaridis, brunneo-cinctis, subrotundatis; peritheciis 1-3, epiphyllis, fusco-nigris, minutissimis, poro apertis; sporulis longissimis, curvatis vel flexuosis, multiseptatis, hyalinis, 90-100 = 3.5.

Hab. in foliis vivis v. languidis Cytisi Laburni in Italia et Gallia.

59. Septoria Laburni Passer. Funghi Parm. Septor. n. 30. — Peri- 2612 theciis punctiformibus, atris, vertice acuto, in maculis irregularibus arescendo dealbatis sparsis; sporulis bacillaribus, integris, hyalinis, rectis vel arcuatis aut flexuosis, 12-20 ≥ 2.

Hab. in foliis languidis Cytisi Laburni, socià Ascochytâ Cytisi Lib.? (sporulis biscoctiformibus, 1-septatis, hyalinis), Parma Italiæ (Passer.), Malmedy (Libert).

60. Septoria Emeri Sacc. Mich. I. p. 173. — Maculis arescendo deal- 2613 batis, fusco-cinctis, variis; peritheciis paucis punctiformibus, lenticularibus, pertusis; sporulis filiformibus, utrinque acutatis, curvulis, $20 \approx \frac{3}{4}$, continuis, hyalinis.

Hab. in foliis Coronillæ Emeri in silva Montello Ital. bor.
61. Septoria Drymios Mont. Fl. Chil. VII. p. 493. Rhabdospora Dry- 2614
mios Mont. Syll. crypt. p. 278. — Epiphylla; perithecijs innatis
confertim gregariis globosis, tandem cupulari-collapsis, atris, poro
lacero pertusis; cirro albo; sporulis baculiformibus obtusis subsessilibus, obscure septatis.

Hab. in foliis Drymidis chilensis in Chile (GAY).

62. Septoria Rosæ Desmz. Exs. n. 535. Ascochyta Rosarum Lib. 2615 Exs. n. 50? — Maculis fuscis, flavo-rubro-cinctis; peritheciis epiphyllis, minutis, depressiusculis, numerosis, brunneis; sporulis aciculari-clavulatis, 70-90 ≈ 3,5-4, nubilosis, hyalinis.

Hab. in foliis Rosæ caninæ, R. pumilæ, R. scandentis in Gallia, Italia, Lusitania, Belgio. — var. Sempervirentis Dur. et Mont. Fl. Alg. p. 595. Epiphylla; maculis parvis fuscidulis, zona obscuriore cinctis; peritheciis innatis, sparsis fuscis minutis, 100 μ . crassis, tandem poro pertusis; sporulis cylindricis curvatis obscure 3-4-septatis, 30-50 \approx 2,5. In foliis vivis aut languescentibus

Rosæ semperirentis circa Alger in Africa (Durieu). An ea-

dem ac Sept. Rosæ-arvensis?

63. Septoria Rosæ-arvensis Sacc. Mich. I. p. 176. M. V. n. 1019, 2616 Septoria rosana Thüm. Contr. Myc. Lus. n. 620. — Maculis pallidis, fusco-cinctis; peritheciis punctiformibus, epiphyllis, nigricantibus; sporulis acicularibus, $50-60 \approx 2\frac{1}{2}-3$, obsolete 4-5-septatis. hyalinis.

Hab. in foliis Rosæ arvensis in silva Montello (SACCARDO). Rosæ sempervirentis, Chieti (Passerini), Rosæ cultæ pr. Coimbra (Moller). — Affinis Septoriæ Rosæ. An probe diversa a Septoria Rosarum?

64. Septoria Rosarum West. Bull. de Bruxell. 1851, p. 396. Sept. 2617 Rosce B. minor West. et Wall. Exs. n. 426. — Epiphylla; maculis minutis, rotundatis, sparsis, pallidis purpureo-cinctis; peritheciis raris, semiemersis, nigris; sporulis flexuosis, cylindricis, utrinque obtusis, 3-6-nucleatis.

Hab. in foliis vivis Rosæ pumilæ et collinæ nec non

Rosarum cultarum in Belgio, Anglia et Italia.

65. Septoria ascochytoides Sacc. Mich. I. p. 178. — Maculis sub. 2618 circularibus oblongisve, arescendo dilute ochraceo-fulvescentibus, atrosanguineo-marginatis; peritheciis epiphyllis gregariis, lenticularibus, punctiformibus, distincte pertusis, ochraceis; sporulis cylindraceis v. subfusoideis, 18-20 = 21/2-3, 1-septatis, ad septum leniter constrictis, utrinque obtusiusculis, minute 4-guttulatis, hyalinis.

Hab. in foliis Spirææ decumbentis, Covolo, Treviso Ital.

bor., et Spirææ cujusdam in Sibiria asiatica.

66. Septoria Rubi West. Exs. n. 938, Kickx Flor. Fl. p. 433. — Ma- 2619 culis rotundatis, brunneo-rufis dein centro albidis purpureo-cinctis; peritheciis epiphyllis, brunneo-nigris, depressiusculis, late pertusis, paucis; sporulis filiformibus, 40-55 = 1,5, obscure nucleolatis et obscurius 2-3-pluri-septulatis, hyalinis.

Hab. in foliis Ruborum in Belgio, Gallia, Italia, Britannia, Lusitania, Amer. bor. - Sept. Rubi R. et C. North Am. Fungi n. 436, Depazea areolata in Thüm. M. U. n. 296 et Spilosphæria Ruborum Rabenh. non differre videntur. Sporulæ longitudine valde ludibundæ.

67. Septoria Cratægi Kickx, Flora crypt. Fl. II. p. 433. — Maculis 2020 brunneo-fuscis, pallescentibus, dein centro albido, non vel nigrocinctis; peritheciis epiphyllis, minutis, prominulis, nigris; sporulis

Sphærioideæ, Scolecosporæ, Septoria.

487

filiformibus, acicularibus, curvulis, $60 \approx 1.5$, continuis v. obsolete septatis guttulatisve, hyalinis.

Hab. in foliis Cratægi Oxyacanthæ et oxyacanthoidis in Gallia, Italia, Belgio: frequens.

68. Septoria Cydoniæ Fuck. Symb. mycol. p. 104. — Peritheciis gre- 2621 gariis, subconfluentibus, tectis, minutis, atris, ostiolis prominulis, perforatis; sporulis angustissime filiformibus, continuis, hyalinis.

Hab. in foliis vivis languidisve Cydoniæ vulgaris in Ger-

mania, Austr. infer. et Italia bor.

69. Septoria cydonicola Thüm. Symb. Myc. Austr. n. 12. Septoria 2622 Bolleana Thüm. Contr. Funghi Litor. n. 193, t. I. f. 25. — Peritheciis globosis, epiphyllis, sparsis, emersis, parvis, atris in maculis exaridis, griseo-pallidis, irregularibus, vix vel non obscure marginatis; sporulis plus minusve cylindraceis, minime curvulatis, utrinque obtuso-truncatis, bi-triseptatis, hyalinis, 10-14 ≈ 3.

Hab. ad folia viva Cydoniæ vulgaris in agro goritiensi.

- A Sept. Cydoniæ satis differt.

70. Septoria Mespili Sacc. Mich. I. p. 177. — Maculis, arescendo sub- 2623 ochraceis, rufocinctis, variis; peritheciis punctiformibus; sporulis bacillaribus curvulis, $30-35 \approx 1-1^{1}/_{2}$ continuis, hyalinis, pluriguttulatis.

Hab. in pag. sup. foliorum Mespili germanicæ, Susegana Treviso Ital. bor., socia Phyllostictá Mespili Sacc., nec non in Gallia pr. Saintes (Brunaup).

71. Septoria piricola Desmz. 18 Not. 7, p. 8. Septoria dealbata Lév. 2624 ex parte, Sept. Piri West. Exs. n. 136. — Epiphylla; maculis exaridis, albo-griseis, nitidulis, parvis, sparsis, subrotundatis vel irregularibus, anguste brunneo-marginatis; peritheciis paucis, minutis, prominulis, nigris, poro pertusis; cirris albidis v. olivaceis; sporulis filiformi-elongatis, curvulis, 2-septatis, multiguttulatis, 60 = 3.5, dilute olivaceis.

Hab. in foliis vivis Piri communis in tota Europa. — Spermogonium Sphærellæ Lucillæ Sacc. videtur.

72. Septoria nigerrima Fuck. Symb. p. 104. — Peritheciis immersis 2625 maculæ albidæ insidentibus, cirros longos aterrimos protrudentibus; sporulis filiformibus, curvatis, septatis, utrinque obtusis, hyalinis.

Hab. in foliis Piri communis in Rhenogovia. — «A Sept. piricola sporulis hyalinis differre videtur, sed quomodo cirri atri?»

73. Septoria perularum (Thum.) Sacc. Cryptosporium perularum 2626 Thum. in Wien. Landw. Zeit. 1879, p. 276. — Peritheciis subcuticularibus minutissimis vix visibilibus punctiformibus, nigris, gregariis, membranaceis postremo apice apertis; sporulis numerosis fusiformibus, continuis utrinque acutatis, arcuatis vel subrectis, hyalinis $12-18-(\text{sepius }16)\approx 3,5-4$.

Hab. in perulis subsiccis ramulorum vivorum Piri commu-

nis, Laibach Carnioliæ (Voss).

74. Septoria hyalospora (Mont. et Ces.) Sacc. F. Ven. Ser. V. p. 204. 2627 Cryptosporium hyalosporum Mont. et Ces. Syll. p. 273. — Hypophylla, minutissima, gregaria; peritheciis hemisphæricis, $\frac{1}{4}$ mill. diam., tandem pertusis, atris; sporulis cylindraceis in hemicyclum curvatis, $30 \approx 3\frac{1}{2}$, 1-septatis, hyalinis, pedicellatis.

Hab. in foliis languidis Sorbi torminalis in Italia et Germania. — Septoria Sorbi (Ces.) Fuck. in foliis Sorbi Ariæ in

Italia, Britannia et Germania Sphærellæ initium sistit.

75. Septoria Sorbi-hybridæ Passer. Funghi Parm. Septoria n. 52. — 2628

A Septoria piricola differt sporulis multo longioribus, tenuioribus et multinucleolatis.

Hab. in foliis languidis caducisve Sorbi hybridæ, Parma in Italia boreali.

76. Septoria disseminata Desm. 14 Not. 6, pag. 23. — Epiphylla; ²⁶²⁹ peritheciis sparsis, minutissimis, epidermide nigrificata tectis, demum erumpentibus, poro apertis; cirris albidis; sporulis tenuissimis curvulis, rectiusculis, 15-20 ≈ 1½, nubilosis.

Hab. in foliis siccis Pruni Lauro-cerasi in Gallia.

77. Septoria lauro-cerasina Passer. Funghi Parm. Septor. n. 40. 2630 (S. Lauro-cerasi). — Peritheciis hypophyllis sparsis, tectis, subglobosis, atris; sporulis bacillaribus hyalinis, basidiis filiformibus plus minus longis fultis, 12 \(\times 2.5.\)

Hab. in foliis siccis dejectis Pruni Lauro-cerasi, Parma

in Italia boreali.

78. Septoria Lauro-cerasi Desm. et Grog. Fungi Gall. n. 126. — 2631 Maculis minutis circularibus, pallidis, vere peculiaribus; sporulis..... a me non visis.

Hab. in foliis Pruni Lauro-cerasi, Toulouse in Gallia.

79. Septoria Pruni-Mahaleh Therry in Roum. Rev. Myc. V. p. 178. 2632

— Maculis epiphyllis, minutis, rotundatis, brunneo-rubris, dein a matrice avulsis, leniter zonatis, in macula majore confluentibus; peritheciis brunneo-nigris prominulis poro pertusis; sporulis cirro albido expulsis, longis, linearibus, arcuatis, hyalinis, 30 ≈ 1.

Hab. in foliis Pruni Mahaleb, Lyon Galliæ (THERRY).

80. Septoria cerasina Peck Rep. on the St. Mus. New York. — Maculis sparsis vel confluentibus, minutissimis, subangulosis, brunneis vel rubro-brunneis; peritheciis paucis, siccis collapsis, quasi marginatis, pallidis vel succineis; cirris albis; sporulis longis, filiformibus, sæpe valde curvatis 50-75 μ. longis.

Hab. in pagina inferiore foliorum Pruni serotinæ, Lake

Pleasant in America boreali.

81. Septoria Pruni Ellis Amer. Nat. 1882, p. 811. — Peritheciis in 2634 maculis brunneis deciduis, 1-3 mill. diam., immersis; sporulis cylindraceis, curvatis, obtusis, 4-6-septatis, 30-50 \(\approx 2. \)

Hab. in foliis Pruni americanæ, Lexington Amer. bor.

82. Septoria Ravenelii Thüm. Spec. Fung. Am. trig. Spec. n. 14. — 2635 Peritheciis hypophyllis, magnis, prominulis, aureis, patellæformibus, irregularibus in maculis parvis, purpureis; sporulis longis, fusiformibus, lunulato-curvatis, utrinque obtusiuscule acutatis, hyalinis, obscure 3-4-septatis, 40-50 = 4, in cirros aureos erumpentibus.

Hab. in foliis languidis Cerasi carolinianæ, Aiken in Ca-

rolina austr. Americ. sept. (RAVENEL).

83. Septoria effusa (Lib.) Desm. in Ann. Sc. nat. 1847, VIII. p. 23. 2636 Sacc. Mich. II. p. 346, Ascochyta effusa Lib. Exs. n. 355. — Peritheciis in maculis rufescentibus subgregariis, punctiformibus, late hiantibus; sporulis bacillaribus, curvulis, $20-25 \approx 1^3/4-2$, spurie 3-4-septatis, hyalinis.

Hab. in foliis vivis Pruni Cerasi in Gallia et Gorizia.

84. Septoria pallens Sacc. Gnomoniæ erythrostomæ spermog. Fuck. 2637 Symb. p. 123. — Peritheciis (?) subsuperficialibus, gregariis, in macula magna discolori, punctiformibus, orbicularibus, depressis, diaphanis, pallidis; sporulis filiformibus, curvatis, continuis, longis, hyalinis.

Hab. in pag. infer. foliorum vivorum v. languentium Cerasi

Avium in Jura Helvetiæ (Morther).

85. Septoria Photiniæ Berk. et C. North Pac. Exp. n. 127. — Pe- 2638 ritheciis epidermide nigrificatâ medio ocellată tectis; sporulis rectis brevibus linearibus.

Hab. in foliis Photiniæ in California.

86. Septoria Calycanthi Sacc. et Sp. Sacc. Mich. I. p. 176. — Maculis 2639 arescendo subochraceis; peritheciis punctiformibus, dense gregariis, quandoque subconcentrice digestis, amphigenis, 100-150 μ. diam.; sporulis cylindraceis, utrinque leniter attenuatis, 15-25 ≈ 1½-2½, medio 1-septatis raroque subconstrictis, rectis curvulisve, hyalinis.

Hab. in foliis languentibus Calycanthi floridi, Conegliano Ital. bor. (Spegazzini), et in foliis Calycanthi levigati, Coimbra Lusitaniæ (Moller).

87. Septoria phyllostictoides Sacc. Mich. II. p. 101. — Maculis la- 2640 tis vagis, albicantibus; peritheciis epiphyllis punctiformibus, lenticularibus, 100 μ . diam.; sporulis fusoideo-bacillaribus, $12-15 \approx 1$, rectiusculis, continuis v. 1-septatis, hyalinis.

Hab. in foliis Deutziæ scabræ pr. Rouen Galliæ (Letendre).

88. Septoria ceuthosporoides (Cooke) Sacc. Cryptosporium ceutho- 2641 sporoides Cooke et Harkn. Grev. 1881, p. 127. — Peritheciis deplanatis, fuscis, ceuthosporoideis, demum superne fissis; sporulis fusiformibus, curvatis, hyalinis, 18-20 ≥ 3.

Hab. in foliis emortuis Eucalypti in California. — Habitus quasi Ceuthosporæ phacidioidis.

89. Septoria Mortolensis Penz. et Sacc. Funghi Mortol. n. 27. — 2642 Maculis nullis; peritheciis laxe gregariis, numerosis, majusculis, hypodermicis, dein erumpentibus, 150-200 μ. diam., sphæroideis, depressis, ostiolo paullum prominente, contextu parenchymatico, nigris, carbonaceis; sporulis longe cylindraceis, rectis, utrinque rotundatis, integris vel spurie 1-2-septatis, plasmate granuloso farctis, 50-55 ≈ 3-3,5, basidiis brevibus, hyalinis, simplicibus.

Hab. in foliis delapsis Eucalypti amygdaloidis et Acaciæ sp., in foliis vivis Hederæ algeriensis, Mortola in Ital. bor. — Affinis Septoriæ siculæ.

90. Septoria Jahorosæ Speg. Arg. Pug. I. p. 188. — Maculis subro- 2643 tundis, confluendo irregularibus, griseo-candicantibus, pellucidis, margine incrassato rufescente cinctis; peritheciis centro macularum densiuscule gregariis, minutis, 90-100 μ. diam., lenticularibus, atris, contextu parenchymatico, membranaceo, ostiolo latiusculo donatis; sporulis bacillari-filiformibus, rectis vel flexuosis, utrinque acutiuscule rotundatis, 25-30 ≈ 1-1,5, hyalinis, 1-3-septatis.

Hab. in foliis vivis vel languidis Jaborosæ integrifoliæ vulgatissima ubique in agro bonariensi Argentinæ.

91. Septoria Hederæ Desmz. Ann. Sc. natur. 1843, XIX. p. 340, Sacc. 2644 Mich. I. p. 172. — Epiphylla; maculis suborbiculatis, eburneis, exaridis, ambitu lato et fusco-purpureo; peritheciis minutis, tectis; ostiolis nudis, globosis, poro apertis; sporulis linearibus, tenuissimis, guttulatis, hyalinis, flexuosis, 30-40 ≈ 1-2.

Hab. in foliis Hederæ Helicis in Italia, Belgio, Gallia, Germania, Britannia.

92. Septoria Desmazierii Sacc. Mich. I. p. 172, Sept. Hederæ Desm. 2645 Not. XVII. p. 23. — Maculis nullis, peritheciis numerosis, sparsis, minutissimis, nigris, epidermide tectis, poro apertis; sporulis in semicirculum curvatis, bacillari-clavulatis, 20 μ. longis.

Hab. in foliis languidis Hederæ Helicis in Gallia.

93. Septoria insularis B. et Br. Ann. N. H. n. 747, t. 15, f. 8. — 2646 Maculis brunneis amplis distinctis; peritheciis initio epidermide elevata et centro pustulata tectis; sporulis filiformibus, leniter curvulis, 38 u. longis.

Hab. in foliis semiemortuis Hederæ in Britannia.

94. Septoria Grossulariæ (Lib.) West. Crypt. belg. n. 944. Asco- 2647 chyta Grossulariæ Lib. Exs. n. 250. — Maculis initio brunneis dein albicantibus, centro aridis, fusco-cinctis; peritheciis epiphyllis, minutis, nigris, sparsis, poro amplo pertusis; sporulis linearibus, curvulis, 12-16 = 1, minute 6-7-guttulatis, hyalinis; cirro albido.

Hab. in foliis subvivis Ribis Grossulariæ in Italia, Belgio, Austria infer. — Sporulæ, sec. Kickx Fl. cr. Flandr. I. pag. 431, 10-12-guttulatæ.

95. **Septoria sibirica** Thum. Pilzfl. Sibir. n. 814. — Peritheciis epiphyllis, sparsis, mediis, primo tectis demum liberatis, conicis, ostiolatis, nigris in maculis parvulis, sinuosis, arescendo sordide candidis, anguste fusco-marginatis; sporulis tenuissimis, gracillimis, bacillaribus, utrinque truncatis, continuis vel obsolete uni-triseptatis, semper curvatis, sepe lunulatis, hyalinis, 55-75 ≈ 1,5.

Hab. ad folia viva Ribis acicularis in rupestribus pr. Kavkaskoje in Sibiria asiatica. — A Septoria Grossularia Westd. et S. Ribis Desm. sporulis triplo vel duplo majoribus longe diversa!

96. Septoria Ribis Desmz. Mem. Soc. des Sc. de Lille, 1842. Asco-2649 chyta Ribis Lib. Exs. n. 53. Phlæospora Ribis West. Bull. Bruxell. 1850, p. 20. — Hypophylla; maculis parvulis, irregularibus, venulis cinctis, brunneo-purpurascentibus; peritheciis innatis, minutissimis, convexis, fusco-nigrescentibus, demum ore orbiculari late apertis; cirris roseis; sporulis elongatis, linearibus, curvatis, pluri-nucleolatis, 50 p. longis.

Hab. in foliis languescentibus Ribis nigri in Gallia, Germania et Anglia.

97. Septoria Aucubæ West. Bull. ac. roy. belg. II. Ser. t. XII. n. 7. 2650— Maculis epiphyllis, latis, irregularibus, brunneo-pallidis, fusco-marginatis; peritheciis nigris, lucidis, sparsis; cirris albidis; sporulis cylindricis, 30 = 2,5.

 $\it Hab.$ in foliis Aucubæ japonicæ in Belgio (Martens et Dumont).

98 Septoria Corni-maris Sacc. Mich. I. p. 178. — Maculis amplis, 2651 irregularibus, sæpe marginalibus, fuscis, zona saturatiore cinctis; peritheciis punctiformibus, lenticularibus pertusis; sporulis bacillaribus, curvulis 15-30 \pm 13/4-3, utrinque obtusis, initio pluriguttulatis, dein 3-4-septatis, hyalinis, in cirros albidos protrusis.

Hab. in pag. sup. foliorum Corni maris, Colfosco, Treviso, Italiæ borealis.

99. Septoria cornicola Desmz. Exs. n. 342, Kickx Fl. cr. Flandr. I. 265: p. 430. Sept. Corni Niessl, Depazea cornicola DC. Fl. fr. VI. p. 146 ex parte. — Maculis orbicularibus, griseis, nigro-purpureo marginatis; peritheciis epiphyllis, sparsis, nigris, depressulis; sporulis cylindraceis, curvulis, 35-40 \(\approx 2-2.5, \) obsolete 2-4-septatis, hyalinis; cirro subalbido.

Hab. in foliis Corni sanguineæ in Italia, Belgio, Gallia, Britannia, Germania, Austria.

100. Septoria Xylostei Sacc. et Winter, Hedwigia 1883, p. 181. — 2653 Maculis amphigenis, candicantibus, atro-marginatis, minutis; peritheciis lenticularibus, tectis, 120–150 μ . diam., pertusis, circa ostiolum densioribus; sporulis filiformibus, subcurvis, $40-60 \approx 1.5$, hyalinis, 6-8-guttulato-subseptatis.

Hab. in foliis vivis v. languidis Loniceræ Xylostei, Zürich, Helvetiæ.

101. Septoria obscurata Thum. Contr. Myc. Lusit. n. 389. — Peri-2654 theciis epiphyllis, paucis, gregariis, submagnis, emerso-conicis, atris in maculis obscuris, cinereis, orbiculatis, opacis, subexaridis, margine nigro purpurascente obliterato cinctis, subtus subfuscis; sporulis rectis, cylindraceis, utrinque obtuse rotundatis, obsolete biseptatis, ad septa non constrictis, achrois sed impellucide grumulosis, $12 \approx 4$.

Hab. in foliis vivis Loniceræ Periclymeni, Coimbra Lusitaniæ (Moller).

102. **Septoria sambucina** Peck, 28 Rep. on the St. Mus. N. Y. — 2655 Maculis aridis, albidis late fusco-cinctis, brunneis vero vel purpureo-brunneis in hypophyllo; peritheciis superficialibus, paucis, minutis; sporulis longis, filiformibus, plus minusve curvatis, obscure 6-septatis, 50-75 μ . longis.

Hab. in foliis Sambuci canadensis, Buffalo Amer. bor.

103. Septoria Leycesteriæ Sacc. et Sp. Sacc. Mich. I. p. 177. — Ma. 2656

culis subcircularibus sinuosisque, ochraceis, brunneo-cinctis; peritheciis laxe gregariis, amphigenis, punctiformibus, lenticularibus 100-200 μ . diam. pertusis, contextu tenui-membranaceo, celluloso, dilute olivaceo; sporulis cylindraceis, curvulis, 25-30 \approx 3-4, 1-septatis, quandoque constrictis, obsolete 2-4-guttulatis, hyalinis.

Hab. in foliis Leycesteriæ formosæ, Conegliano Ital. bor.

(SPEGAZZINI).

104. Septoria Viburni West. Bull. Soc. de Brux. 1852, XIX. part. 3, 2657 p. 121. — Peritheciis epiphyllis, minutis, semi-emersis, nigris in maculis irregularibus centro albidis, brunneo-cinctis; sporulis cylindraceis, utrinque obtusis, 5-7-guttulatis, hyalinis.

Hab. in foliis Viburni Opuli, V. Lantanæ in Belgio, Ita-

lia, Britannia.

105. **Septoria albo-punctata** Cooke in Grev. XII. p. 25. — Maculis $_{2658}$ epiphyllis minutis, albis, purpureo-cinctis; peritheciis 1-2 in centro maculæ insidentibus; sporulis linearibus, nucleatis, hyalinis, $60-70 \approx 2$.

Hab. in foliis Vaccinii arborei in Carolina austr. America borealis.

106. Septoria difformis C. et Peck Rep. on the St. Mus. N. Y. — Maculis suborbicularibus, brunneis; peritheciis aggregatis, nigris, amphigenis; sporulis profusis, linearibus, rectis vel curvatis hyalinis, 15 μ. longis, in massulas albas v. glaucas dein ejectis.

Hab. in foliis vivis Vaccinii pensylvanici, Lake Plea-

sant Amer. bor.

107. Septoria stemmatea (Fr.) Berk. Ann. Nat. Hist. n. 192. Sphw- 1660 ria (Depazea) stemmatea Fr. S. M. H. p. 528. — Epiphylla gregaria; peritheciis globosis, minutis, in maculis aridis dealbatis rotundatis sparsis; sporulis.....

Hab. in foliis Vaccinii Vitis-ideæ in Suecia, Anglia, Italia, Rossia. — Sistit maculas subrotundas, 2-3 lin. latas, subexaridas, sordide fuscescentes, cui insident perithecia numerosa, minuta, sublibera, et epidermide lactea laxe tecta; dein, excussa epidermide, nuda, opaca, evacuata subcircumscissa. «Sporulas nondum reperire licuit, sed nucleum (ascigerum?) immaturum.»

108. Septoria Unedonis Rob. et Desm. 14 Not. 1847, p. 20. — Maculis epiphyllis, minutis, numerosis, irregularibus, albido-exaridis, ambitu lato purpurascentibus; peritheciis paucis, innato-prominulis, nigrescentibus, convexis collabascendo concavis; sporulis elongatis, tenuissimis, curvulis, subcontinuis, $25 \approx 1^{1}/2$.

2661

Hab. in foliis languescentibus Arbuti Unedonis et Arb. canariensis in Gallia, Britannia, Lusitania, Italia et Austria inf.

109. Septoria Rhododendri Cooke in Grevillea. — Epiphylla; ma- 2002 culis orbicularibus, pallidis, atro-purpureo-cinctis; peritheciis punctiformibus, aggregatis vel circinatis; sporulis filiformibus, 40 μ . longis.

Hab. in foliis Rhododendri, Maine Amer. bor.

110. Septoria pulchella B. et C. North Amer. Fungi n. 435. — Ma- 2063 culis rufulis linea nigra circumdatis; peritheciis punctiformibus; sporulis lineari-oblongis, 5 p. longis.

Hab. in foliis Andromedæ, Alabama Amer. bor.

111. Septoria Stigma B. et C. North Amer. Fungi n. 440 bis. — Pe- 2664 ritheciis punctiformibus in areis foliorum dealbatis insidentibus; sporulis linearibus brevioribus, 15 4. longis.

Hab. in foliis Symploci, Alabama Amer. bor.

112. Septoria Symploci Ell. et Mart. Am. Nat. 1882, p. 1002. — Ma- 2565 culis albis, 1-1,5 mill. diam., brunneo-cinctis; peritheciis brunneis, subglobosis, hypophyllis, semiimmersis, irregulariter sparsis, 112 4. diam.; sporulis hyalinis, cylindrico-clavatis, spuric 2-3-septatis, curvatis, 24-30 = 3.

Hab. in foliis languidis Symploci tinctoria. Green Cove Springs Amer. bor.

113. Septoria Bumeliæ Sacc. Mich. I. p. 180. — Maculis nullis v. 2006 obsoletis; peritheciis plerumque hypophyllis, hinc inde maculiformiter dense congregatis, globoso-lenticularibus, prominulis 70-100 μ . diam., pertusis; sporulis fusoideo-bacillaribus, $10\cdot15\approx11_4$ -2, rectis curvulisve, 2-nucleatis (simulate 1-septatis) hyalinis.

Hab. in foliis languidis Bumelia lycioidis in horto patavino Ital. bor. - Ad genus Ascochylam nutat.

114. Septoria Iasmini Roum. Revue Mycolog. IV. pag. 22. Fungi gallici n. 1887. - Maculis epiphyllis pustulatis, brunneis dein albis, brunneo-marginatis, circularibus dein confluentibus disformibus; peritheciis paucis, 2-5 nigris, rariter fertilibus; sporulis fusiformibus hyalinis, in cirros alhos expulsis, 6-10 μ . long.

Hab. in foliis Jasmini in Gallia.

115. Septoria Sambac Passer. Septor. Parm. n. 86. — Maculis sub- 2008 rotundis albo-exaridis, fusco-marginatis; peritheciis epiphyllis punctiformibus atris, primo tectis, dein epidermide fissa cinctis; sporulis bacillaribus rectis hyalinis, 15 = 2.

Hab. in foliis Jasmini Sambac, Parma Italia bor.

116. Septoria elæospora Sacc. Mich. I. p. 178. — Maculis vagis arescendo ochraceis v. brunneis margine saturatiore cinctis; peritheciis epiphyllis, sparsis, innato-prominulis, punctiformibus, lenticularibus, 100 μ. diam. pertusis, laxe cellulosis, ochraceo-fuligineis; sporulis bacillari-fusoideis, rectis v. leniter curvulis, 25 ≈ 3, utrinque obtusiusculis, 3- (raro 4-septatis) e hyalino olivaceis.

Hab. in pag. super. foliorum Fraxini Orni, F. excelsioris et F. pubentis, Selva Ital. bor., Parenzo Istriæ et Coimbra Lusitaniæ. — A Sept. Orni Pass. et S. Fraxini Desm. rite diversa.

117. Septoria Orni Pass. Hedw. 1876 p. 108. Myc. univ. n. 395. Sacc. 2670 Mich. I. p. 177. — Peritheciis minutis, tectis, in maculis sordidis, fuscis, effusis; sporulis in cirrum albidum ejectis, filiformibus, breviusculis, rectis vel flexuosis, continuis vel remote et obsolete guttulato-septulatis, intus granulosis, 25-30 ≈ 1.5.

Hab. in foliis vivis vel languidis Fraxini Orni, Parma (Passerini), Treviso (Saccardo).

118. Septoria Besseyi Peck Bull. Tor. Cl. 1875, p. 77. — Hypo- 2671 phylla; peritheciis sparsis in tota pagina inferiore, prominulis, initio pallide ferrugineis vel subochraceis, dein nigris; sporulis latiusculis, cylindraceis, obtusis, curvulis, nucleatis, $40-55 \approx 4$, in massulas albidas v. cirros breves crassos erumpentibus.

Hab. in foliis vivis Fraxini, Ames, Jowa Amer. bor. — (Ex ipso cl. Peck cum Sept. Fraxini esset conjungenda, at e diagnosi mihi satis diversa videtur).

119. Septoria Fraxini Desm. Exs. n. 1086, nec Fr. (quæ Cercospo- 2672 ra), Sept. Badhami β. Fraxini Auersw. — Hypophylla; peritheciis minutis, nigris, semi-innatis, in maculis irregularibus sparsis; sporulis cylindraceis, utrinque truncatis, nucleolatis.

Hab. in foliis vivis Fraxini excelsioris, Fr. Orni in Gallia, Italia, Germania, Belgio, Britannia, Lusitania, Florida Am. bor.

— Sporulas nondum vidi, sed tantum perithecia crebra prominula, forte Sphærellæ initium.

120. Septoria Syringæ Sacc. et Sp. Sacc. Mich. I. p. 176. — Maculis amphigenis, versiformibus, dilute ochraceo-lutescentibus, saturatius marginatis; peritheciis sparsis punctiformibus, lenticularibus 100-120 μ. diam., latiuscule pertusis, contextu laxe parenchymatico subochraceo; sporulis cylindraceo-bacillaribus, 14-18 × 1½-2½, utrinque rotundatis, rectis curvulisve, obsolete 1-septatis, hyalinis.

Hab. in foliis Syring & vulgaris, Conegliano Ital. bor. (Spe-GAZZINI), Saintes in Gallia (BRUNAUD). — Forte huc spectat Sept.

9679

Syringie West. « Les Crypt. d'après leurs stations » pag. 68 (nomen), sed diagnosim v. exemplar nullibi reperire potui.

121. Septoria Phillyreæ Thum. Contr. Mycol. Lusit. n. 614. — Pe- 2674 ritheciis amphigenis, solitariis vel paucis, magnis, lenticulari-punctiformibus, atris, emersis in macula parvula, arescendo-grisea, plus minusve sinuosa, fusco-nigro-marginata, in pagina folii inferiore fuscidula; sporulis bacillari-cylindraceis, rectis vel leniter arcuatulis, utrinque angustatis subacutatisve, triseptatis, achrois, 42-48 = 4-5.

Hab. in foliis vivis Phillyreæ latifoliæ, Coimbra Lusitaniæ (Moller).

122. Septoria Oleæ-chrysophyllæ Pass. F. Abiss. p. 191. - Perithe- 2675 ciis punctiformibus, acutis, dense sparsis, paginæ sup. totam superficiem occupantibus; sporulis cylindraceis, rectis v. vix curvis, utrinque obtusis, guttulatis, $7-8 \approx 1^{1}/_{2}$ (an potius $15 \approx 3$?).

Hab, in foliis Olew chrysophyllw in Abyssinia. — «Verisimiliter non valde diversa a Phoma Olecen.

123. Septoria crateriformis (Dur. et M.) Sacc. Ascospora crateri- 2676. formis Dur, et M. Fl. Alg. et Syll. n. 1005, Sphæria Olece var. 3. Phillyrea Montag. Ann., 2, I. p. 342. — Amphigena; peritheciis gregariis ovoideis innato-erumpentibus atro-nitentibus, apice poro amplo pertusis, tandem elabentibus foveolamque relinquentibus; sporulis linearibus pluriguttulatis, 15 = 2,5, basidiis paullo brevioribus.

Hab. in foliis Phillyree mediæ et latifoliæ in Gallia et apud Alger. — «Phomæ Oleæ affinis.»

124. Septoria erythrostoma (Dur. et M.) Sacc. Ascospora erythrosto- 2077 ma Dur. et M. Fl. Alg. et Syll. n. 1008. - Hypophylla; peritheciis sparsis innatis, ostiolo prominulo epidermide rubefacta cincto instructis; cirris....; sporulis cylindricis rectis specie septatis seu guttulas globosas uniseriatas foventibus.

Hab. in folio Phillyreæ Alger (Durisu).

125. Septoria Chionanthi Cooke in Hedwigia, 1878, p. 38. — Hypo- 2078 phylla; peritheciis æruginosis, membranaceis, semiimmersis, numerosissimis, punctiformibus; sporulis linearibus, brevibus, obtusis, hyalinis, 8 p. longis.

Hab, in foliis Chionanthi virginici, S. Carolina (RAVENEL). 126. Septoria Olivæ Pass. et Thum. Contr. Myc. Lusit. n. 609. - 2679 Peritheciis plerumque epi- raro etiam hypophyllis, conicis, dense gregariis, mediis, aterrimis, sine macula; sporulis bacillaribus, le-

niter arcuatis, utrinque obtusatis, continuis vel obscure uniseptatis, hyalinis, $16-18 \approx 4$.

Hab. ad folia arida prostrata Oleæ sativæ Penedo da Saudade pr. Coimbra Lusitaniæ (Moller). — Septoriæ (Phomæ) Oleæ Dur. et Mont. facie similis sed sporidia plane diversa. Confer etiam S. Evonymi japonicæ Pass., S. Ceratoniæ Pass., S. Laurocerasi Pass., quæ sporulis similibus cum illa conveniunt.

127. Septoria japonica Thum. Contr. Funghi Litor. n. 354. — Maculis obsoletis vel nullis; peritheciis in partibus foliorum emortuis, amphigenis, dense gregariis, pro ratione magnis, hemisphærico-lenticularibus, nitido-aterrimis; sporulis bacillaribus vel acicularibus, rectis, raro subarcuatis, utrinque angustato-acutatis, continuis vel raro obscure uniseptatis, hyalinis, $12-15 \approx 2-2.5$.

Hab. in foliis aridis Ligustri japonici, Gorizia in Ital. bor.

128. Septoria Ligustri (Desm.) Kichx Flandr. I. p. 354. Depazea Li-2081 gustri Desm. Exs. n. 776. — Maculis pallide ochraceis, latis, amphigenis, irregularibus, rufo-marginatis; peritheciis globulosis, epiphyllis, punctiformibus, sparsis, numerosis; sporulis cylindraceis, utrinque obtusis, curvulis v. flexuosis, guttulatis, hyalinis.

Hab. in foliis languidis Ligustri vulgaris in Gallia et Belgio. — Sporulæ in exemplaribus gallicis a me visis metiuntur $15 \approx 1$.

129. Septoria neriicola Passer. Sept. Parm. n. 89. — Maculis nullis; 2682 peritheciis carbonaceis, erumpentibus, minutis, papillatis, hypophyllis; sporulis brevibus et tenuibus rectis, vel vix curvis, integris, hyalinis.

Hab. in pag. inf. foliorum Nerii Oleandri, Parma in Italia. — Tum a Sept. Oleandri Mont., tum a Sept. oleandrina Sacc. rite diversa.

130. Septoria oleandrina Sacc. Fungi Veneti V. p. 205. M. V. n. 533. 2683 Septoria Nerii (Auersw.?) Thum. F. Austr. n. 692. — Maculis epiphyllis, subrotundis angulosisve confluentibusque, arescendo candicantibus; peritheciis remotiusculis, grandiusculis, 140-150 y. diam, globulosis, poro amplo pertusis, contextu distincte parenchymatico fuligineo; sporulis filiformibus, inæquilongis, sæpe curvulis, quandoque clavulatis, 15-25 = 1½-2, obsolete septulatis, hyalinis.

Hab. in foliis languidis Nerii Oleandri in Italia, Gallia, Austria infer. — A Sept. Oleandri Dur. et M. valde diversa. Depazea Nerii Auersw. mihi ignota est, sed verisimiliter eadem ac mea species censenda est.

131. Septoria Paulowniæ Thum. Contr. Mic. Litor. n. 194, t. I. f. 2684

3:

15. — Peritheeiis dense gregariis, epiphyllis, conicis, prominulis, ostiolatis, parvis, nigris in macula plus minusve orbiculata, exarida, griseo-fusca, zonata, dein lacerata; sporulis cylindraceis, rectis, utrinque obtuse rotundatis, uni- vel raro biseptatis, numerosis, hyalinis, $7-10 \approx 2-2.5$.

Hab. in foliis vivis languidisve Paulowniæ tomentosæ, Gorizia in Ital. bor. et Toulouse Galliæ.

132. Septoria Thümenii Sacc. Depazea Buddlejæ Thüm. F. Austr. 2685 Afr. n. 66. — Peritheciis sparsis, erumpentibus in foliorum paginæ superioris macula rufo-brunnea, distincta, minutis, atris; sporulis fusiformibus, curvatis, uni- sed pro maxima parte non septatis, 20 ≈ 6 hyalinis.

Hab. in foliis vivis Buddlejæ auriculatæ in dumetis montis «Boschberg» prope Somerset-East, Promont. bonæ spei, in consortio Meliolæ quinquesporæ (P. Mac-Owan).

133. **Septoria Buddlejæ** Kalch. et Cooke in Grev. 1880, p. 20. — Epi- 2686 phylla; maculis irregularibus, fuscis, hinc illinc confluentibus; peritheciis membranaceis, semiimmersis; sporulis linearibus, rectis vel flexuosis, hyalinis, 40-50 μ. longis.

Hab. in foliis Buddlejæ salvifoliæ in Africa australi.

134. Septoria Cestri (Mont.) Sacc. Rhabdospora Cestri Mont. Syll. 2687 crypt. p. 277. — Epiphylla, depazeoides; maculis amphigenis, orbicularibus, albis, fusco-limbatis; peritheciis globoso-depressis, siccitate collabentibus, atris opacis, poro pertusis; sporulis acicularibus rectis aut vix curvulis, obsolete septatis.

Hab. in foliis Cestri Parqui in Chile (BERTERO).

135. Septoria Hippophaës Desmz. et Rob. 21 Not. 1853, p. 2. — Ma- 2688 culis nullis; peritheciis hypophyllis raro epiphyllis, 150 μ . diam. sæpius sparsis, innato-prominulis, globosis, fusco-nigrescentibus; cirris helvolis; sporulis longissimis, curvatis, $60-75 \approx 2.5$.

Hab. in foliis Hippophaës rhamnoidis in Gallia.

136. Septoria Daphnes Desmz. Ann. Sc. nat. 1843, XIX. pag. 339. 2689 Leptothyrium Mezerei Lib. Exs. n. 360. — Amphigena; maculis viridibus, irregularibus, indeterminatis; peritheciis perexiguis, sparsis vel gregariis, epidermide tectis ampulliformibus pallidis; cirris albidis; sporulis clavatis brevioribus, apice acutis, 2-4-nucleatis, subhyalinis, 20 μ. longis.

Hab. in foliis languescentibus Daphnes Mezerei in Gallia et Germania. — Fere absque dubio eadem ac Marsonia Daphnes.

137. Septoria argyræa Sacc. Mich. I. p. 127. — Maculis arescendo 2690

ochraceis variis sæpe fusco-cinctis; peritheciis punctiformibus lenticularibus gregariis, $\frac{1}{10}$ - $\frac{1}{12}$ mill. diam., pertusis; sporulis cylindraceis, rectiusculis v. tortuosis, $20-30\approx 2^1/2-3$, utrinque obtusiusculis, hyalinis, dein in cirros breves carneolos protrusis.

Hab. in pagina superiore foliorum Elæagni argenteæ in horto botanico S. Giobbe Venetiis (P. Magnus). — A Septoria Elæagni Desm. differt sporulis septatis aliisque notis.

138. Septoria phacidioides Desm. 13 Not. p. 67. Phacidium Buxi 2691 Frank, sec. West. — Erumpens, hypo-rarius epiphylla, sparsa, numerosa, epidermide lacerata cincta; peritheciis globosis, fusco-nigris; ostiolis punctiformibus, nucleo gelatinoso; cirris tenellis, albis; sporulis magnis, oblongis, utrinque obtusis. 33 × 10.

Hab. in foliis Buxi in Gallia et Belgio. — «Vix Septoria.»

139. Septoria kalmiæcola (Schw.) Berk. et Curt. North Am. Fungi 2892

p. 74, Sphæria (Depazea) Kalmiæcola Schw. Sacc. Syll. II. p. 440.

— Maculis candidis orbiculatis, margine intumescente cinctis et folia circumcirca nigrificantibus; peritheciis convexis, atris, concentricis, innatis; sporulis septorioideis.

Hab. in foliis Kalmiæ latifoliæ etc. in Carolina et Pensylvania.

140. Septoria (?) Celtis-gallæ W. R. Ger. Bull. Torr. 1875, p. 78. — 2693 Maculis nullis; peritheciis minutissimis, nigris, immersis, sparsis; sporulis non visis.

Hab. in gallis foliorum Celtidis occidentalis, New Paltz Sanding in Amer. bor. — «Ignotis sporulis, species perdubia».

141. Septoria (?) Celtidis Sacc. M. V. n. 552 et Fungi Ven. Ser. V. 2694 p. 204. — Maculis obsoletis; peritheciis globulosis, membranaceis, poro pertusis, 350-450 μ. diam., atris; sporulis raris, cylindraceoclavulatis, curvulis, 40 = 3, 3-5-septatis guttulatisque, hyalinofuscidulis.

Hab. in foliis languidis Celtidis australis, Vittorio (Treviso) Ital. bor. — A genere nonnihil extorris.

142. Septoria Pipulæ Cooke in Grevillea. — Maculis purpureo-brun 2695 neis, irregularibus, amphigenis; peritheciis immersis, indistinctis, tenuibus, epiphyllis; sporulis filiformibus, multi-nucleatis, 50-60 μ. longis.

Hab. in foliis Fici religiosæ (vulgo Pipula), Belgaum Indiæ (Horson).

143. Septoria arcuata Cooke Grevill. II. p. 100. — Epiphylla; ma- 2696 culis albidis, orbicularibus, purpureo-cinctis; peritheciis minimis,

Sphærioideæ, Scolecosporæ, Septoria.

immersis, ostiolo papillato, exserto; sporulis linearibus, arcuatocurvatis, multi-nucleatis 40-50 µ. longis.

Hab. in foliis Fici, Belgaum Indiæ (Hobson).

144. Septoria brachyspora Sacc. Mich. I. p. 529. — Maculis variis 2697 arescendo expallentibus, ochraceo-marginatis; peritheciis paucis punctiformibus, lenticularibus, late hiantibus, 80 \mu. diam., contextu fusco-cinereo; sporulis, bacillaribus, curvulis, $12-15 \approx 1$, hyalinis. Hab. in foliis Fici elasticæ in calidariis, Saintes Galliæ

(BRUNAUD).

145. Septoria crustacea Welw. et Curr. Fungi Angolenses VI. p. 286. 2698 - Peritheciis minutissimis, crusta nigra insertis et in acervulos multiformes confluentes, ostiolis minutis punctiformibus instructos compactis; sporulis filiformibus tenuibus, pallidis, longitudine variis.

Hab. ad folia arboris familiæ Artocarpearum, Trombeta,

Golungo alto, Angolæ. - «An Cytosporinæ affinior.»

146. Septoria Artocarpi Cooke Some Indian Fungi, in Grevillea. - 2699 Peritheciis aggregatis, in maculis brunneis orbicularibus insidentibus; sporulis minutis linearibus, 10 µ. longis.

Hab. in foliis Artocarpi integrifoliæ, Mysore Indiæ.

147. Septoria Excecariæ Speg. F. Argent. Pug. III. n. 110. - Macu- 2700 lis latiusculis, 2-5 mill. diam., indeterminatis, subarescentibus, griseo-fuscescentibus; peritheciis densiusculis, minutis 80-90 4. diam., atris, lenticularibus, ostiolo parvulo pertusis, membranaceis, contextu olivascente; sporulis filiformibus, rectis v. flexuosis, granuloso-farctis, utrinque obtusiusculis, 35-45 = 1, hyalinis.

Hab. ad folia viva Excæcariæ [Sapii] biglandulosæ v. serratæ en Barracas al Norte in Argentina. (J. Cisneros).

148. Septoria Garryæ Roum. F. Gall. n. 31, Mich. II. pag. 100. - 2701 Maculis arescendo expallentibus, amphigenis; peritheciis punctiformibus, sparsis, pertusis; sporulis bacillaribus, subcontinuis, rectiusculis, $15-18 \approx 1,5-1,7$, hyalinis.

Hab. in foliis Garryæ ellipticæ p. Toulouse Galliæ (Rou-MEGUERE).

149. Septoria platanifolia Cooke Rav. Fung. Amer. n. 27. Hedwigia 2702 1878, p. 38. — Hypophylla; peritheciis numerosissimis, minutis, brunneis, semiimmersis, totam superficiem occupantibus; sporulis

Hab. in foliis Platani occidentalis, S. Carolina in America boreali.

150. Septoria Letendreana Sacc. Mich. I. p. 528. — Maculis subnul- 2703

lis vagisve; peritheciis gregariis hypophyllis, punctiformibus, globoso-lenticularibus, 60 μ . diam., late pertusis; sporulis bacillaribus, curvis, $18-25 \approx 1\frac{1}{2}$, parce guttulatis, hyalinis.

Hab. in foliis emortuis Juglandis regiæ, Rouen in Gallia (LETENDRE).

151. Septoria Liquidambaris C. et Ell. in Grevillea. — Epiphylla; 2704 maculis brunneis, suborbicularibus, minimis; peritheciis atrobrunneis, congestis; sporulis flexuosis, linearibus, 55-60 μ. longis.

Hab. in foliis Liquidambaris in New Jersey Amer. bor.

152. Septoria albaniensis Thum Botanical Gazette Oct. 1880. — Ma- 2705 culis in folii pagina superiore irregularibus, sæpe confluentibus, magnitudine variis, subarescentibus, ochraceis, zona subconcolori vel fusca marginatis, in pagina inferiore e contrario indeterminatis, ochraceo-griseis, obscurius cinctis; peritheciis hypophyllis, sparsis, punctiformi-sublenticularibus, atris, pertusis; sporulis bacillaribus minutis, vel cylindraceis, utrinque subrotundatis, curvulis, uniseptatis, hyalinis, 30-32 ≈ 2,5.

Hab. in foliis vivis Salicis lucidæ, Albany New York (Peck).

— A Septoria salicicola Sacc. et Septoria Populi Desm. sporularum magnitudine et a prima etiam septatione longe diversa.

153. Septoria jenisseica Thüm. Pilzfl. Sibir. n. 629. — Peritheciis 2706 hypo- raro etiam epiphyllis, magnis, paucis, gregariis, lenticulariplanis, semiimmersis, atro-fuscis, epidermide primo tectis in macula orbiculari, interdum confluenti, fusco-grisea, obscure et late griseo-marginata, in foliorum pagina superiore maculam fuscam v. fuligineo-fuscam marginatam efficientibus; sporulis numerosis, longe cylindraceis, valde curvatis, utrinque acutatis, uniseptatis, achrois, 60-66 ≈ 2,5-3.

Hab. in foliis vivis Salicis speciei indeterminata in ins. fluvii Jenissei in Sibiria.

154. Septoria didyma Fuck. Symb. myc. p. 390. — Peritheciis in 2707 macula fusca, minutissimis, fuscis, vix prominulis; cirris albis vel dilute rosellis, punctiformibus, amorphis; sporulis oblongis, utrinque obtusis, curvatis, uniseptatis, hyalinis.

Hab. in foliis Salicis triandræ, Æstrich Germaniæ.

155. Septoria Caprææ Westd. Bull. ac. roy. Belg. II. serie t. XI. 2708 n. 6. — Maculis epiphyllis, minutis, angulosis, eburneis, albidis, rufo-cinctis; peritheciis punctiformibus, sphæricis; sporulis cylindrico-fusiformibus, curvatis, 4-septatis, 4-nucleatis, hyalinis, 20-25 ≈ 2,5.

Hab. in foliis vivis Salicis caprææ, Mons in Belgio et S. atrocinereæ, Coimbra Lusitaniæ. - Sec. Thumen, forma lusitanica præbet sporulas 40 = 5-6; an ergo diversa species?

156. Septoria salicina Peck 25 Rep. p. 87. — Maculis suborbicula- 2709 ribus, brunneis centro aridis; peritheciis minutis brunneis, dein collabascendo pezizoideis; sporulis filiformibus, curvatis, longitudine varia, obscure septatis, 40-60 \u03bc. longis.

Hab. in foliis Salicis lucidæ, Keene in Amer. bor.

157. Septoria Salicis West., Kickx. Flor. Fl. I. p. 432. Depasea 2710 salicicola. Thum. Mycoth. univ. n. 691 p. p. - Peritheciis minimis in maculis albis exaridis, vix ostiolo punctiformi atro emersis; sporulis filiformibus rectis vel curvis, continuis, nucleolatis $22-25 \approx 1.7$.

Hab. in foliis Salicis amygdalinæ, Parma Ital. bor.

158. Septoria salicicola (Fr.) Sacc. Mich. I. p. 171. Depazea sali-2711 cicola Fr. S. Myc. II. p. 530. - Maculis rotundatis, lacteis fuscocinctis; peritheciis minimis sparsis, punctiformibus, convexis, nitidis, nigris; sporulis bacillaribus, curvulis, $40-50 \approx 2^{1}/_{2}-3$, 3-septatis, hyalinis.

Hab. in foliis Salicis cinerea, S. viminalis etc. in Suecia, Italia, Austria, Sibiria, Gallia. — A Sept. Salicis West., Sept. salicella B. et Br. et a Sept. didyma Fuck. longe diversa. Verisimiliter huc spectat Sept. Caprew West. in Kl. Herb. myc. II. n. 566.

159. Septoria Populi Desmz. 10 Not. 5, p. 11. Sphæria frondicola 2712 Fr. S. M. II. p. 529 p. p.?, Septoria dealbata Lev. p. p. — Epiphylla; maculis parvis, orbiculatis sparsis vel confluentibus, albis, exaridis in ambitu griseis, fusco-cinctis; peritheciis paucis, humidis convexis, pallidis, siccis plano-concavis, subnigris, ore orbiculari late apertis; sporulis bacillaribus, utrinque obtusiusculis, curvulis, $45 \approx 3$, 1-septatis, hyalinis.

Hab. in foliis Populi nigræ in Belgio, Gallia, Italia, Lusitania, Britannia, Sibiria; et in foliis Pop. suaveolentis, Minussinsk in Rossia.

160. Septoria ægirina Pass. F. Parm. Sept. n. 118 et in Myc. univ. 2713 n. 595. - Peritheciis amphigenis, sparsis, nigris; sporulis filiformibus, longis, crassiusculis, curvis, intus parce nucleatis, integris, hyalinis, $25-38 \approx 2^1/$,.

Hab. in foliis elapsis Populi nigræ, Parma in Ital. bor. — A Depazea frondicola Fr. et Depazea tremulicola De C. differt

sporulis multo longioribus et peritheciis per totius folii superficiem sparsis. — Adest forsan quoque Sphærella immatura.

161. Septoria Tremulæ Passer. in Rabh. Fung. eur. n. 1859, Hedwi- 2714 gia 1874, p. 186. — Maculis fuscis, indeterminatis, confluentibus; peritheciis hypophyllis, minutissimis fuscis, epidermide tectis; sporulis filiformibus tenuibus, flexuosis, continuis, 20-25 ≈ 1,5.

Hab. in foliis Populi tremulæ, Collecchio Italiæ bor.

162. Septoria candida (Fuck.?) Sacc. Mich. I. p. 171. Depazea can-2715 dida Fuck.? Sept. Populi f. P. albæ Mycoth. Ven. n. 540. — Maculis epiphyllis candidis; peritheciis punctiformibus, atris, sparsis; sporulis bacillaribus, 28-30 = 21/2, curvulis, 3-septatis, hyalinis.

Hab. in foliis subvivis Populi albæ in Italia bor. et Germania. — Dep. candida in Thüm. F. A. n. 1191 sistit Phyllosticiam populeam Sacc. et Ascochytam populinam Sacc.

163. Septoria Ostryæ Peck 33 Rep. St. Mus. 25. — Maculis minu- 2716 tis, suborbicularibus, rubro-brunneis; peritheciis sparsis, centro macularum insidentibus, nigro-brunneis; sporulis linearibus, valde curvatis, indistincte septatis, hyalinis, 40-60 µ. longis.

Hab. in foliis et squamis strobilorum Ostryæ virginicæ in montibus Helderberg Amer. bor.

164. Septoria Avellanæ B. et Br. Grevillea V. p. 56 et in Rabenh. 2717 F. E. n. 1958. — Hypophylla; peritheciis circinatis; sporulis fusiformibus, curvatis, 10 μ. longis.

Hab. in foliorum subvivorum partibus aridis Coryli Avellanæ, Bathford in Anglia, Gorizia in Italia. bor.

165. Septoria corylina Peck 34 Rep. St. Mus. 44. — Maculis sub- 2718 orbicularibus, sparsis, brunneis vel rubro-brunneis, fusco-cinctis; peritheciis paucis, epiphyllis, minutis, nigro-brunneis, tumidis valde apertis; sporulis filiformibus, curvatis, hyalinis, 38-45 μ. longis.

Hab. in foliis vivis Coryli rostratæ, Millerton Amer. bor.

166. Septoria Fagi Auersw. in Thum. F. Austr. n. 1280. Sacc. Mich. 2719 II. p. 101. — Peritheciis ubique sparsis, epiphyllis, vix conspiciendis; sporulis filiformibus, vehementer curvatis, 40 ≈ 2, nubilosis, hyalinis.

Hab. in foliis fagineis in Vogesis (Моискот), in Austria (Тнимен).

167. Septoria Gilletiana Sacc. Mich. I. p. 359. — Maculis nullis; pe· 2720 ritheciis (spuriis) hypophyllis, hinc inde gregariis 100-110 μ. d., epidermide tumidula tectis; sporulis e strato proligero crassiusculo

fasciculatim oriundis, filiformibus curvulis v. tortuosis, 30-45 = 1 3/4-2, utrinque obtusiusculis, 3-septatis, hyalinis.

Hab. in foliis nondum emortuis Castaneæ vescæ pr. Alencon in Gallia (C. C. GILLET). - A Sept. castanicola Desm. Sacc. Michelia II. 175 sporulis dimidio et ultra angustioribus etc. recedit.

168. Septoria ochroleuca B. et C. North Am. Fungi n. 438 et Peck 25 2721 Rep. p. 88. - Maculis sparsis, suborbicularibus, pallidis, brunneomarginatis; peritheciis centralibus, minutis, sparsis, hypophyllis, pallidis vel succineis dein collapsis; sporulis fusoideo-filiformibus, curvatis, continuis v. 1-septatis, 25 μ. longis.

Hab. in foliis Castaneæ, Sandlake et New England Americæ borealis.

169. Septoria Castaneæ Lév. Ann. Sc. nat. 1846, p. 278. — Peri- 2722 theciis hypophyllis minutissimis innatis intus albis, macula pallida arida insidentibus; sporulis linearibus utrinque obtusis, continuis, hyalinis.

Hab. in foliis Castaneæ vescæ, Ville-d'Avray in Gallia et prope Gorizia.

170. Septoria castanicola Desm. in Ann. Sc., natur. 1847, VIII. 2723 pag. 26. Sept. Castaneæ Lév.? Thum. Herb. myc. n. 221. -Amphigena; maculis fuscis, indeterminatis; peritheciis hypophyllis, brunneo-nigris, minutis, numerosis, pertusis, 60-70 \u03c4. diam.; sporulis cylindraceis, utrinque obtusiusculis, curvulis, 30-40 = 4,5, hyalinis, 3-septatis, in cirros albido-sordidos protrusis.

Hab. in foliis vivis Castaneæ vescæ in Italia bor., Britannia, Gallia, Lusitania, Austria infer. - Spermogonium Sphærellæ.

171. Septoria Quercus Thum. Contr. Myc. Lusit. n. 613. — Peri- 2724 theciis hypophyllis, sparsis, lenticulari-applanatis, fuscis, semiimmersis, in maculis plus minusve orbiculatis, ochraceis, arescentibus, latissime ferrugineo-marginatis; sporulis acicularibus, utrinque acutatis, arcuatulis vel subrectis, uniseptatis, hyalinis, 15- $16 \approx 1.5$.

Hab. ad folia viva Quercus pedunculatæ in montosis Matta d'Alcarraques pr. Coimbra Lusitaniæ (Moller).

172. Septoria quercina Desm. Not. XIV. p. 25 (1847). .— Amphige- 2725 na; maculis minutis, paucis, rotundatis, albidis, exaridis, in ambitu late brunneis; peritheciis 1-3, minutissimis, innato-prominulis, nigris, poro pertusis; sporulis elongatis, filiformibus, curvulis, pluriguttulatis, hyalinis, $40 \approx 1.5-2$.

Hab. in foliis languescentibus Quercuum in Gallia, Italia,

Sphærioideæ, Scolecosporæ, Septoria.

505

Gorizia, Austria. — An Sphæria quercicola Wallr. huc spectet, non liquet.

173. Septoria quercicola Sacc. Mich. I. p. 174. Septoria incondita 2726 Rob. var. quercicola Desm. in Ann. Sc. natur. 1853, XX. p. 95, — Maculis variis, arescendo candicantibus; sporulis cylindraceis, curvulis, utrinque rotundatis, 25-30 \(\pi 3-4\), 3-septatis, non constrictis, hyalinis.

Hab. in foliis Quercus pedunculatæ in Gallia et Italia bor. et in foliis Quercus humilis, Colimara Lusitaniæ (Moller). — Sporulæ Sept. inconditæ (= S. castanicolæ Desm.), sed maculæ diversæ.

174. Septoria dryina Cooke in Grev. XII. pag. 25. — Amphigena; 2727 maculis circularibus albis, minimis, rubro-cinctis; peritheciis paucis, punctiformibus, atris; sporulis linearibus, curvulis, pluri-nucleolatis, hyalinis, 50-60 ≈ 1,5.

Hab. in foliis Quercus falcatæ in Carolina austr. Americæ borealis.

175. Septoria Querceti Thum. Bot. Gaz. oct. 1880. — Peritheciis 2728 hypophyliis, numerosissimis, densissime gregariis, minutis, nitido-atris, immersis, epidermide pustulæformi tectis, postremo vix liberis, punctiformibus, maculas plus minusve suborbiculatas, translucentes efficientibus; sporulis numerosis, subrectis v. arcuatulis, cylindraceis, utrinque obtusatis, bi-quadriseptatis, multinucleatis, hyalinis, 18-22 ≈ 2,5-3.

Hab. in foliis subvivis vel aridis Quercus tinctoriæ, Aiken Carolinæ australis (RAVENEL).

176. Septoria ocellata (Lév.?) Sacc. Mich. II. p. 380. Sphæropsis 2729 ocellata Lév.? Ann. Scienc. nat. 1846, V. p. 297. — Peritheciis gregariis, globoso-lenticularibus, 150 μ. diam., pertusis, laxe celluloso-contextis, fuligineis; sporulis fasciculatis, tereti-fusoideis, curvulis, 20-25 ≈ 3, utrinque obtusiusculis, continuis, hyalinis sed coacervatis dilutissime olivaceis.

Hab. in foliis emortuis Quercus pedunculatæ in M. Generoso, (Penzig) et in Gallia? (Léveillé).

177. Septoria Betulæ (Lib.) West. Sacc. Mich. I. p. 177. Ascochy- 2730 ta Betulæ Lib. — Maculis amphigenis, subcircularibus, minutis, pallide ochraceis; peritheciis lenticulari-punctiformibus; sporulis bacillaribus curvulis, $30-34 \approx 1^{1}/_{2}$, utrinque obtusiusculis, hyalinis.

Hab. in foliis Betulæ albæ, Conegliano in Italia boreali (Spe-GAZZINI).

178. Septoria betulina Passer. Hb. S. Belulce Passer. Prim. Elen. 2781 Funghi Parm. n. 52. Thum. Fung. œconom. n. 242. - Maculis irregularibus, minutis griseis, mox confluentibus et exaridis; peritheciis hypophyllis, sparsis; sporulis filiformibus, curvis, 30-60 a. long. spurie septatis.

Hab. in foliis Betulæ albæ, Collecchio Parmæ in Italia bor. 179. Septoria betulicola Peck 34 Rep. St. Mus. p. 44. — Maculis 2732 minutis, confluentibus, angulosis, in pag. sup. rubro-brunneis, in pag. inf. pallidis; peritheciis hypophyllis, minutis, nigris; sporulis filiformibus, curvatis, hyalinis, 30-45 \mu. longis.

Hab. in foliis vivis Betulæ luteæ, Catskill mont. Americæ borealis.

180. Septoria microsperma Peck 34 Rep. St. Mus. 44. — Maculis in- 2733 definitis, brunneis, sæpe confluentibus; peritheciis hypophyllis, numerosis, minutis, irregularibus, brunneis, siccis rugosis, irregulariter fissis; sporulis allantoideis, hyalinis, 9-14 u. longis.

Hab. in foliis languidis Betulæ lentæ, Knowersille Am. bor. 181. Septoria Alni Sacc. Mich. I. p. 177. — Maculis subcircularibus, 2734 arescendo ochraceis, epiphyllis; peritheciis sparsis, punctiformibus: sporulis bacillaribus subclavulatisve, 30-35 = 11/, -21/, remote guttulatis, hyalinis.

Hab. in foliis languidis Alni glutinosæ, Conegliano in Italia boreali (Spegazzini).

182. Septoria alnicola Cooke Handb. pag. 451. — Maculis pallidis, 2735 brunneis vel fuscis, rotundatis, 5-7 mill. diam.; peritheciis minutis, sparsis, semiinnatis, nigris, pertusis; sporulis oblongis, rectis vel curvatis.

Hab. in foliis vivis Alni glutinosæ in Britannia et Ital. bor. 183. Septoria alnigena Sacc. Mich. I. p. 178. — Maculis nullis; pe- 2736 ritheciis punctiformibus hinc inde densiuscule congregatis, lenticularibus, atris; sporulis breve filiformibus, curvulis, utrinque acutiusculis, $20 \approx \frac{3}{4}$, continuis hyalinis.

Hab. in pag. sup. foliorum vigentium Alni glutinosæ, Vittorio Ital. bor. — A Sept. alnicola Cooke Hndb. p. 451 sporulis filiformibus nec oblongis distinguenda — Sept. alnicola in Thum. M. U. n. 693 aptius ad Sept. Alni Sacc. pertinere videtur.

184. Septoria Pini Fuck. Symb. p. 259. — Peritheciis immersis, in 2737 acervulos lineari-oblongos seriatis, per epidermidem demum erumpentibus; cirris candidis; sperulis oblongo-clavatis, 1-septatis, hyalinis.

Hab. in foliis vivis Abietis excelsæ in Rhenogovia. — Spermogonium Hypodermatis nervisequii. Sec. J. Kühn huc spectat Blennoria Abietis Wallr., quam vero alii ad Chrysomyxam Abietis aptius forte referunt.

185. Septoria acicola (Thum.) Sacc. Cryptosporium acicolum Thum. 2738 Fung. Americ. trig. sp. n. 5, in Flora 1878, pag. 178. — Peritheciis parvulis, gregariis, plus minusve lineari-dispositis, tectis punctiformibus, subglobosis, atris; sporulis cylindricis, curvato-lunulatis, utrinque subangustatis et rotundatis, simplicibus, humerosissimis, pallide fusco-griseis, 27 = 3,5-4.

Hab. in foliis aridis Pini variabilis, Aiken in Carolina australi.

186. Septoria Podocarpi Thüm. F. Austro-Afr. n. 125. — Peritheciis 2739 solitariis, prominulis, semiimmersis, globulosis, submagnis, nigris, in maculis irregularibus, cinereo-exaridis, angustissime fusco-marginatis; sporulis numerosis, cylindraceis vel ellipsoideo-cylindricis, utrinque rotundatis et leniter angustatis, rectis, uniseptatis, vel simplicibus, achrois, 5-7 ≈ 1,5-2,5.

Hab. in foliis vivis Podocarpi Thunbergii, Grahamstown Promont. bonæ spei (Mac-Owan).

187. Septoria boninensis Berk et C. North Pac. expl. n. 126. — 2740 Peritheciis minutis epidermide nigrificata polita ocellata tectis; sporulis rectis, mediis, filiformibus, curvulis.

Hab. in petiolis folii cujusdam ignoti in insula Bonin.

188. Septoria variegata Vize Grevillea II. p. 14. — Epiphylla; ma- 2741 culis brunneis, griseis vel pallidis; peritheciis minutis, immersis, caespitosis; sporulis minutis, linearibus, hyalinis, 50 μ . longis.

Hab. in foliis coriaceis in India orient.

189. Septoria albo-nigra B. et C. North Americ. Fungi n. 434 bis. 2742 — Maculis albis, fusco-annulatis; peritheciis minimis; sporulis filiformibus, 55 v. longis.

Hab. in foliis vivis, Alabama Amer. bor.

190. Septoria recta B. et C. North Americ. Fungi n. 448. — Pe- 2743 ritheciis nitidis totam superficiem occupantibus; sporulis rectis linearibus, utrinque acutiusculis, 25 μ. longis.

Hab. in foliis coriaceis emortuis in Carolina inf. Amer. bor.

191. Septoria macularis Lév. Ann. Sc. nat. 1846, p. 278. — Peri- 2744 theciis adnatis, gregariis, epiphyllis, punctiformibus, nigris, macula nigra insidentibus; ostiolis inconspicuis; sporulis elongatis filiformibus, utrinque obtusis, continuis, hvalinis.

Hab. ad folia in Chili.

192. Septoria olivacea B. et C. Cub. Fungi n. 568. — Sporulis elon- 2745 gatis curvatis, utrinque obtusis, bi-triseptatis.

Hab. in pag. inf. foliorum in insula Cuba.

§§ In plantis herbaceis.

193. Septoria compta Sacc. Mich. I. p. 93, F. ital. t. 89. — Maculis 2746 arescendo ochraceis, angulosis; peritheciis immersis, globulosis, 130 μ. diam., ferrugineis, ostiolo obtuso latiuscule hiantibus; sporulis cylindraceis curvulis, 20-25 ≈ 5, utrinque obtusiusculis, 3-5-septatis, ad septa constrictis, hyalinis, denique in cirrum albidum protrusis.

Hab. in foliis languidis Trifolii alpestris, Selva in Italia bor., et in foliis Trifolii incarnati, Coimbra Lusitaniæ.

194. Septoria Medicaginis Rob. et Desm. 14 Not. bot. p. 24. — Ma- 2747 culis amphigenis, subrotundatis vel irregularibus, albidis in ambitu fuscis; peritheciis innatis, hypophyllis, pallidis, depressis, ore orbiculari apertis; cirris ochroleucis; sporulis cylindricis utrinque obtusis, subhyalinis, 7-9-guttatis, 20 \u223.

Hab. in foliis languescentibus Medicaginis sativæ in Ital. bor. et Gallia.

195. Septoria Astragali Desm. Ann. Sc. nat. 1843, XIX. p. 345. — 2748 Epiphylla; maculis irregularibus, griseo-viridibus, dein fuscis; peritheciis paucis, globosis, prominulis, nigris, poro dilatato apertis; sporulis filiformibus, tortuosis, prælongis, 120 = 3, 9-10-septatis, hyalinis.

Hab. in foliis Astragali Glycyphylli in Italia, Gallia, Britannia, Belgio, Germania. — Adest forma (an parum evoluta?)

sporulis minus longis obsoleteque septatis.

196. Septoria Baptisiæ Cooke in Rav. F. Amer. n. 30, Hedwigia 1878, 2749 p. 38. — Epiphylla; maculis suborbicularibus, purpurascentibus; peritheciis parce inspersis, immersis; sporulis linearibus rectis vel curvulis, nucleatis, 40-50 μ. longis.

Hab. in foliis Baptisiæ in Carolina austr. (RAVENEL).

197. Septoria Hosackiæ Harkn. F. Calif. p. 11. — Peritheciis mi- 2750 nutis, amphigenis; sporulis filiformibus, flexuosis, hyalinis, 3-7-septatis, 64 = 4; maculis irregularibus, fusco-flaventibus.

Hab. in foliis vivis Hosackiæ strigosæ, Antioch Californiæ.

198. Septoria Lupini Harkn. Calif. F. p. 11. — Epiphylla; maculis 2751

indeterminatis, flaventibus, subinde tota foliola occupantibus; pe-

ritheciis minute papillatis; sporulis linearibus, utrinque acutis, obscure septulatis, $40-60 \approx 4-5$.

Hab. in foliis vivis Lupini densiflori, Tamalpais Californiæ.

199. Septoria sojina Thum. Symb. Myc. Austr. III. n. 63. — Peri- 2752 theciis epiphyllis sparsis, parvis, conico-globulosis, emersis, atris in macula determinata, irregulari, arescendo flavente, anguste fusco-purpurascente-marginata; sporulis cylindraceis vel subcuneatis, rectis 1-septatis, deorsum subacutis, apice obtuse rotundatis, grosse 2-4-nucleatis, hyalinis 12-18(sæpius 14) = 4,5-5.

Hab. ad folia viva vel languida Sojæ hispidæ, S. Michele Tiroliæ et Rubbia prope Gorizia.

200. Septoria Melanophthalmi B. et C. North Amer. Fungi n. 450. 2753
 — Maculis pallidis, margine late rufo circumdatis; sporulis allantoideis vel flexuosis brevibus, 2-3-nucleatis.

Hab. in foliis Dolichi melanophthalmi, in Carolina superiore Americæ bor.

201. Septoria Dolichi B. et C. North Amer. Fungi n. 449^{bis} . — Ma- 2754 culis albis, margine lato flavo cinctis; sporulis rectis subfusiformibus triseptatis, 40μ , longis.

Hab. in foliis Dolichi in Carolina inferiore America bor.

202. Septoria Pisi West. Bul. ac. roy. belg. Ser. II. t. XII. n. 7. — 2755 Maculis amphigenis, irregularibus, latis, elongatis, venulis foliorum limitatis, albidis vel brunneo-pallidis; peritheciis luteo-brunneis, dein nigris, sparsis; cirris luteo-aurantiacis; sporulis cylindricis, rectis, 40 ≈ 3-3,3.

Hab. in foliis Pisi sativi, Namur Belgii.

203. Septoria Viciæ West. Exs. n. 1151, Pass. F. Parm. Sept. n. 34. 2756

— Maculis expallentibus, fusco-marginatis; peritheciis punctiformi-lenticularibus; sporulis tenuibus, rectiusculis, integris, multinucleolatis, hyalinis, longitudine variis, 30-60 ≈ 2,5.

Hab. in foliis Viciæ sativæ, Parma Italiæ bor.

204. Septoria orobina Sacc. Mich. I. p. 187. — Maculis irregulari- 2757 bus arescendo subochraceis, atrocinctis; peritheciis remotis, punctiformibus, lenticularibus poro pertusis; sporulis filiformibus, flexuosis, $30 \approx \frac{3}{4}$, eguttulatis, hyalinis.

Hab. in foliis Orobi verni in silva Montello Italiæ bor.

205. Septoria orobicola Sacc. Mich. I. p. 187. — Maculis et peri- 2758 theciis Septorice orobine similibus; sporulis bacillaribus, 60-70 = 2-3, rectiusculis, utrinque obtusis, obsolete septulatis, hyalinis.

Hab. in foliis Orobi verni, Conegliano Ital. bor., Neuchatel Helvetiæ, et Orobi variegati prope Parma.

206. Septoria fulvescens Sacc. Mich. I. p. 191. — Maculis amphi- 2759 genis versiformibus, confluentibus, fulvo-melleis, margine sinuoso concolori; peritheciis amphigenis, globuloso-prominulis, punctiformibus, ochraceis; sporulis bacillaribus, $50-60 \approx 3$, dense fasciculatis, utrinque obtusiusculis, leniter curvatis, 3-5-septulatis, hyalinis.

Hab. in foliis Lathyri silvestris in silva Montello, Treviso Ital. bor. - Species prædistincta et, ut videtur, rarissima sed ob perithecia fulvo-mellea a typo desciscens et ad Nectrioideas vergens.

207. Septoria silvestris Pass. F. Parm. Sept. n. 37. — Maculis nul. 2760 lis vel pallidis, tandem evanidis, nervis venisque limitatis; peritheciis pallidis, tectis, cirros albidos ejicientibus, sparsis, demum atris; sporulis bacillaribus, rectis, integris, hyalinis, 30-50 = 3.

Hab. in foliis Lathyri silvestris, Vigheffio Italiæ bor.

208. Septoria emaculata Peck et C. Rep. on the St. Mus. N. York. 2761 - Peritheciis latis, sparsis, prominulis, nigris; sporulis filiformibus, curvatis vel flexuosis, nucleolatis, 50-87 μ . longis.

Hab. in foliis vivis et leguminibus Lathyri palustris, Buffalo Amer. bor.

209. Septoria stipularis Pass. F. Parm. Sept. n. 36. — Peritheciis 2762 amphigenis in maculis fuscis primo marginantibus, mox stipulam totam invadentibus, aggregatis, punctiformibus, castaneo-fuscis, membranaceis; sporulis bacillaribus, subrectis, integris, achrois. apicibus rotundatis, endoplasmate opaco, granuloso, $25-38\approx2.5-3$.

Hab. in stipulis Lathyri Aphacæ, Parma Italiæ bor. 210. Septoria Gei Rob. et Desm. in Ann. Sc. nat. 1843, XIX. p. 343. 2763

- Maculis orbicularibus vel irregularibus brunneo-ochraceis, dein centro cinereis aridisque fusco-limbatis; peritheciis epiphyllis numerosis, brunneo-nigris, hemisphæricis, dein collapsis; sporulis filiformibus, utrinque acutis, $30 \approx 1.5$, continuis, hyalinis, nubilosis.

Hab. in foliis vivis languidisve Gei urbani in Italia, Britannia, Gallia, Belgio; et in foliis vivis Gei biflori in Lusitania.

211. Septoria potentillica Thüm. Pilzfl. Sibir. n. 627. — Peritheciis 2764 epiphyllis, dense gregariis sed non numerosis, punctiformi-conoideis, minutis, atris in macula parva, orbiculari, ochracea, late purpureo-marginata, subtus dilute ochroleuca; sporulis numerosis, subrectis v. leniter arcuatis, utrinque subobtusis, continuis, achrois, $32-40 \approx 2,5-3$.

Hab. in foliis vivis Potentillæ fragarioidis in silvis prope lacum Kysykul in Sibiria asiatica.

212. Septoria sparsa Fuck. Symb. Mycol. p. 390. — Peritheciis glo- 2705 bosis, majusculis, 1-4 in maculis fuscis, erumpentibus, atris, ostiolo papilliformi, demum depressis; sporulis simplicibus, anguste filiformibus, rectis, multiguttulatis, utrinque acuminatis, hyalinis, 50 = 1.5.

Hab. in foliis Potentillæ reptantis in Germania et Italia.

213. Septoria Tormentillæ Desm. et Rob. XIV. Not. p. 22. — Ma- 2766 culis irregularibus, sæpius oblongis, albidis, roseo-cinctis, dein haud marginatis; peritheciis plurimis; sporulis filiformibus, curvis vel flexuosis, continuis hyalinis, 45-55 \(\nu\). longis.

Hab. in foliis Tormentillæ erectæ et Potentillæ re-

ptantis in Gallia, Italia et Belgio.

214. Septoria Fragariæ Desm. Observ. Bot. et Zool. I. n. 7, p. 11, 2767 Ascochyta Fragariæ Lib. — Epiphylla; maculis suborbiculatis, fuscis, in ambitu brundeo-rubris; peritheciis minutissimis, innato-prominulis, fusco-fuligineis, ore orbiculari late apertis; cirris albidis; sporulis cylindraceis, utrinque obtusis, 3-septatis, hyalinis.

Hab. in foliis languescentibus Fragariæ vescæ, Fr. chilensis, Potentillæ fragarioidis, P. opacæ in Italia, Bel-

gio, Gallia, Rossia, Sibiria asiatica.

215. Septoria aciculosa Ell. et Everhart in litt. ad me. — Peritheciis 2768 innatis subsuperficialibus congregatis, minut.s, in utraque pagina folii; sporulis acicularibus continuis, $15-20 \approx 3/4$.

Hab. in foliis Fragariæ cultæ, Illinois in Amer. bor. (F. S.

EARLE).

216. Septoria Waldsteiniæ P. et C. Rep. on the St. Mus. N. York. 2769 — Maculis minutis, inæqualibus, suborbicularibus, aridis, purpureobrunneo- vel nigro-marginatis; peritheciis minutis, paucis, epiphyllis, nigris; sporulis rectis 25 μ. longis.

Hab. in foliis Waldsteiniæ fragarioidis, Portage, Hel-

derberg Moutains Amer. bor.

217. **Septoria Arunci** Pass. F. Parm. Sept. n. 48. — Peritheciis so- 2770 litariis vel paucis, nigris, nitidis, in maculis exaridis, albidis, atrosanguineo-areolatis; sporulis cylindricis rectis vel arcuatis, integris, obscure nucleolatis, $20-25 \approx 2^{1}/_{2}$.

Hab. in foliis Spire a Arunci, Cisa in Apennino parmensi.

218. Septoria Ulmariæ Oud. Fl. myc. Nederland, pag. 3. — Maculis 2771 plurimis sparsis nigris, centro pallidioribus, subrotundis, in utraque folii pagina manifestis; peritheciis minutissimis, in macularum sub-

stantia immersis, nudo oculo vix visibilibus, ex unico cellularum strato formatis, tandem poro minuto apertis; sporulis cylindraceis, utrinque obtusis, flexuosis, hyalinis, continuis, $50 \approx 2.5$.

Hab. in foliis Spirmæ Ulmariæ, Halfweg Hollandiæ.

219. Septoria quevillensis Sacc. Mich. I. p. 527. (S. Ulmariæ). — 2772 Maculis epiphyllis minutis, atro-sanguineis, dein centro expallentibus; peritheciis lenticularibus, 60-80 μ. d., late apertis, denique folia punctato-perforantibus, contextu cellulari, melleo; sporulis bacillaribus curvulis, pluriguttulatis, 30-40 ≈ 1-1½, hyalinis.

Hab. in pag. sup. foliorum Spirææ Ulmariæ prope Rouen

Galliæ (LETENDRE).

220. Septoria Brissaceana Sacc. et Let. Sacc. Mich. II. p. 625 (1882). 2773 — Maculis minutis subochraceis, atro-marginatis; peritheciis epiphyllis, punctiformibus, nigricantibus, minute pertusis; sporulis filiformibus, utrinque attenuatis, flexuosis vel curvulis, continuis, guttulatis, 28-36 ≈ 1-1,5, hyalinis.

Hab. in foliis languidis Lythri Salicariæ prope Rouen Gal-

liæ (LETENDRE).

221. Septoria lythrina Peck 33 Rep. St. Mus. 25 (1880). — Maculis 2774 suborbicularibus vel irregularibus, griseo-brunneis, sæpe nigrocinctis; peritheciis minutis, epiphyllis, rariter amphigenis, nigris; sporulis filiformibus, curvulis, 20-40 \(\nu\). longis.

Hab. in foliis vivis Lythri Salicaria, Newburg Amer. bor.

- Forte non satis diversa a S. Brissacean.

222. Septoria Ludwigiæ Cooke in Grev. et n. 33 Rep. on the St. Mus. 2775 N. Y. — Epiphylla; maculis exaridis, rubro-cinctis; peritheciis paucis, punctiformibus, 5-8, gregariis; sporulis linearibus, obtusis. multinucleatis flexuosis, hyalinis, 40 p. longis.

Hab. in foliis Ludwigiæ, Aiken, Sud Carolina, et Ludwigiæ

palustris, Charlton Amer. bor.

223. Septoria Platensis Speg. Pug. Arg. I. p. 189. — Maculis mi- 2776 nutis, orbicularibus, determinatis, candidis, 1-1,5 mill. diam., areola purpurascenti cinctis; peritheciis solitariis, rarius 2-5 gregariis, centro macularum insidentibus, lenticulari-hemisphæricis, atris, minutis, 90-100 μ . diam., contextu membranaceo, fuligineo-olivaceo, ostiolo latiusculo donatis; sporulis cylindraceis, rectis vel flexuosis, apicem versus subattenuatis, hyalinis, $12-18 \approx 1-1.5$, 1-(an posterius 3?)-septatis.

Hab. in foliis vivis vel languidis Jussiae longifolia in paludosis secus Rio de la Plata a la Recoleta Argentina.

224. Septoria obsidionis Speg. F. Argent. Pug. II. n. 111. — Ma-2777 culis epiphyllis 1-3 mill. diam., orbicularibus, albis, arescentibus, quandoque confluentibus, areola lata purpurascente cinctis; peritheciis paucis, minutis, lenticularibus, ostiolo minuto pertusis, 70-90 µ. d., membranaceis, contextu fulvo-olivaceo; sporulis filiformibus 20-30 ≈ 1, inferne obtuse angulato-curvatis, hyalinis.

Hab. ad folia viva Jussiææ longifoliæ in paludosis prope la Recoleta. — Cum Septoria platensi Speg. non comparanda, etsi habitu simillima.

225. Septoria Fuchsiæ Roum. F. Gall. n. 228. — Peritheciis epi- 2778 phyllis, punctiformibus, parcis, atris in maculis irregulari-subrotundis pallidis, brunneo-marginatis insertis; sporulis linearibus, flexuosis, septulatis, hyalinis.

Hab. in foliis Fuchsize coccineze, Montauban Gallize.

226. Septoria maculosa Lév. in Roum. F. Gall. n. 416. — Maculis 2779 expallentibus nigro-marginatis; peritheciis subgregariis, punctiformibus, atris; sporulis bacillaribus curvulis, $15-20 \approx 1\frac{1}{2}$, nubilosis.

Hab. in foliis languidis Cynanchi erecti, Angers Galliæ (Guepin). — Septoria maculosa Gerard, in Peck Reports citata, et in foliis Cuphææ viscosissimæ in Poughkeepsie Amer. bor. lecta, verisimiliter diversa est, at mihi ignota.

227. Septoria Chamænerii Pass. F. Parm. Sept. n. 54. — Maculis 2780 oblongis rubro-cinctis; peritheciis punctiformibus, nigris, utrinque perspicuis; sporulis bacillaribus rectis, apicibus rotundatis, septulatis, 20-25 \pm 2.5-3.

Hab. in foliis Epilobii parviflori, Collecchio in Italia bor.

228. Septoria Epilohii West. in Bull. Acad. Bruxelles 1852, XIX, 3, 2781 p. 120. — Maculis olivaceis, irregularibus vel angulosis, foliorum venulis limitatis vel confluentibus; peritheciis amphigenis, minutis, brunneis, pertusis; cirris albis exilibus; sporulis filiformibus, rectis vel curvatis, parce obsoleteque septatis, hyalinis, 50 ≈ 1,5.

Hab. in foliis vivis Epilobii montani, E. hirsuti, E. parviflori, E. flaccidi, E. angustifolii, E. palustris in tota Europa et in Sibiria asiatica.

229. Septoria Enotheræ West. Bul. ac. roy. belg. Ser. II. t. XII. 2782 n. 7. Depazea Enotheræ Lasch. — Maculis epiphyllis, rotundatis, minutis, initio subviridibus dein brunneis, rubro-vinosis cinctis; peritheciis nigris, punctiformibus, in centro macularum aggregatis; sporulis filiformibus curvulis, hyalinis, minute pluri-guttulatis, 35-40 = 1.5-1.7.

Hab. in foliis Enothera biennis, Œ. sinuata in Belgio, Italia et Amer. boreali.

230. Septoria Nolitangere Thüm. F. Kirgh. in N. Giorn. Bot. Ital., 2783 n. XII. — Peritheciis minutissimis, oculo nudo vix visibilibus, globoso-conicis, subimmersis, atris, sparsis, epi-raro hypophyllis in maculis irregularibus, arescendo ochraceo-albidis, mox laceratis, late violaceo-cinctis; sporulis bacillaribus, rectis, simplicibus (an semper?), utrinque obtusis, enucleatis, achrois, 8-12 ≈ 1,5.

Hab. in foliis vivis Impatientis Nolitangere, Sarmanajewa (Orenburg) Rossia. — Fortasse huc spectat Depazea Im-

patientis Kirchn. in Lotos, mihi ignota.

231. **Septoria Balsaminæ** Pass. F. Parm. Sept. n. 25. — Maculis or 2784 bicularibus exaridis margine incrassatis; peritheciis solitariis vel paucis punctiformibus, atris; sporulis bacillaribus strictis vel vix curvis, apicibus obtusis, triseptatis, loculis nucleolatis, $30-35 \approx 2^1/2$ —3, hyalinis.

Hab. in foliis languidis Balsaminæ hortensis, Parma Italiæ borealis.

232. Septoria Geranii Rob. et Desm. Ann. Sc. nat. Bot. 1853, XX. 2785 p. 93. — Epi- rarius hypophylla; maculis irregularibus, olivaceo-brunneis, late purpureo-cinctis; peritheciis innatis, minutissimis, pallidis, poro simplici pertusis; cirris aureis; sporulis filiformibus, 35-50 ≈ 1, indistincte septulatis, hyalinis.

Hab. in foliis Geranii Robertiani, G. mollis, G. pusilli etc. in Gallia, Italia.

233. Septoria expansa Niessl, Hedwigia 1883, p. 15. — Hypophylla; 2786 maculis indeterminatis, valde expansis gilvis vel subochraceis; peritheciis disseminatis, majusculis, semiimmersis, vertice dehiscentibus; cirris rubescentibus; sporulis filiformibus curvulis, 50-60 = 1, hyalinis pluriguttulatis et indistincte septatis.

Hab. in foliis Geranii dissecti, que subinde omnino occupat, Brünn in Moravia (Niesse).

234. **Septoria Dictamni** Fuck. En. Fung. Nass. n. 330. — Peritheciis 2787 in macula discolori punctiformibus atris; cirris sordidis; sporulis bacillaribus, utrinque obtusiusculis, 90 = 3½-4, leniter curvulis, 4-septatis, hyalinis.

Hab. in foliis languidis Dictamni albi in Germania, Italia bor. et agro tergestino. — Depazea Dictamni Rabenh. in Bot. Zeit. 1851, p. 455 forte non differt; ibi enim parum accurate descripta videtur.

235. Septoria bractearum Mont. Ann. Sc. nat. 1849, p. 49, Rhab. 2788 dospora bractearum Mont. Syll. crypt. p. 277. — Amphigena; peritheciis innatis, perexiguis, globosis, fuscis, tectis poroque pertusis, in maculas rufidulas sparsis aut congregatis; sporulis linearibus, rectis aut incurvis, 50 \(\nabla 2, \) pluri-guttulatis, hyalinis.

Hab. in bracteis Euphorbiæ serratæ, Montaud-les-Miramas Galliæ (Castagne).

236. Septoria Kalchbrenneri Sacc. Septoria Euphorbiæ Kalchbr. in 2789 Hedwigia 1805, p. 158, nec Guep. — Peritheciis punctiformibus, atris, in maculis expallentibus, sepius atro-marginatis; sporulis tenuissimis, flexuosis, granulosis.

Hab. in foliis subvivis Euphorbiæ silvaticæ in montibus Carpathiis, E. palustris et E. asperæ in horto berolinensi.

237. **Septoria Euphorbiæ** Guep. in Roum. F. Gall. n. 521, Sacc. Mich. 2790 II. p. 346. — Maculis amphigenis, subcircularibus minutis, sordide olivaceis; peritheciis numerosis, punctiformibus, late hiantibus; sporulis acicularibus sursum attenuatis $40-45 \approx 2-21\frac{1}{2}$, obsolete 3-4-septatis, hyalinis.

Hab. in foliis languidis Euphorbiæ Esulæ et angulatæ in Vogesis Galliæ (Mougeor).

238. Septoria Hyperici Desm. Ann. Sc. nat. 1842, p. 110, Kickx Fl. 2791 Flandr. I. p. 429. — Epiphylla; maculis orbicularibus, oblongis vel indeterminatis, rufo-brunneis, luteo-marginatis; peritheciis minutis, brunneis, prominulis; cirris luteo-stramineis; sporulis linearibus, rectis, 30-50 g. long., minute 8-16-nucleolatis.

Hab. in foliis Hyperici hirsuti, H. perforati in Italia, Belgio, Britannia. — β. **Elodis** West. exs. fasc. 24, n. 1153: peritheciis obscurioribus, sæpe hypophyllis, poro minuto dehiscentibus; maculis brunneo-nigris, cirris rubro-pallidis. In foliis Hyperici elodis in Belgio.

239. Septoria Lachastreana Sacc. et Let., Sacc. Mich. II. p. 625. — Ma- 2792 culis minutis dealbatis, fusco-marginatis; peritheciis epiphyllis perexiguis, globulosis, parcis, pertusis, 70 μ. diam.; sporulis bacillaribus tenuiter 3-septatis, 36-50 ≈ 1,5, rectis vel curvulis, hyalinis.

Hab. in foliis languidis Althea officinalis prope Rouen Gallie (Letendre).

240. Septoria? Althææ Thüm. F. Austr. n. 995. — Peritheciis mi- 2793 nutis, semiimmersis, atris, subglobosis, in circulum dispositis, in maculis exaridis, pallide-brunneis.

Hab. in foliis vivis vel languidis Althææ roseæ, Tetschen Bohemiæ septentr. — Dubia, nam sporulæ indescriptæ.

241. Septoria gossypina Cooke in Grev. XII. p. 25. — Maculis epi- 2794 phyllis, albidis, irregularibus, purpureo-cinctis; peritheciis punctiformibus, centralibus, atris, semiinnatis; sporulis linearibus, hyalinis, 50 × 1.

Hab. in foliis Gossypii in Carolina austr. Amer. bor.

242. Septoria Carthusianorum West. Bull. ac. roy. belg. Ser. II. t. 2795 XII. n. 7. — Maculis roseis vel luteo-croceis, irregularibus, latis et confluentibus; peritheciis fusco-brunneis, numerosis, immersis, dein prominentibus liberis; cirris roseo-carneis; sporulis cylindricis, rectis vel flexuosis, utrinque obtusis, 5-7-nucleatis, hyalinis, 20-30 = 2.

Hab. in calycibus Dianthi Carthusianorum, Courtrai in Belgio (Westendorp).

243. Septoria Dianthi Desm. 17 Not. 6, p. 20. — Maculis luteolis, 2796 oblongis, rotundis vel irregularibus; peritheciis globoso-depressis, nigro-fuscis, poro apertis; cirris albidis; sporulis elongatis, cylindricis, curvulis, utrinque obtusis, 30-45 ≈ 4, obsolete 4-nucleatis.

Hab. in foliis Dianthi barbati, D. Armeriæ, D. Saxifragi in Italia, Gallia, Lusitania, Sibiria.

244. Septoria Saponariæ (DC.) Savi et Becc. Erb. cr. ital. n. 882, 2797 Fungi Ven. Ser. V. n. 205, Septoria Dianthi β . Saponariæ Desm., Depazea Saponariæ DC. Fl. Fr. VI. p. 147. — Maculis rotundis vel irregularibus; peritheciis globoso-depressis, fuscis; sporulis cylindraceis, curvulis, $40-50 \approx 3\frac{1}{2}-4\frac{1}{2}$, utrinque obtusis, 4-5-nucleatis, hyalinis.

Hab. in foliis Saponariæ officinalis et Silenes inflatæ in Italia, Gallia et Germania.

245. Septoria silenicola Ell. et Mart. Amer. Nat. 1882, p. 1001 (Sept. 2798 Silenes). — Maculis minutis, subluteis; peritheciis luteo-brunneis, delicatis, innatis, sparsis, 56 μ. diam.; sporulis luteo-hyalinis, cylindraceis, curvatis, 3-septatis, 48 = 3.

Hab. in foliis vivis Silenes stellatæ, Chester Co. Pensylvaniæ.

246. Septoria Silenes West. Bull. ac roy. b. Ser. II. tab. XII. n. 7 et 2799 Exsicc. n. 955. — Maculis rotundatis, confluentibus, pallide brunneis, latis; peritheciis minutissimis, nigris, semiimmersis; sporulis cylindricis, $17-20 \approx 2.5$.

Hab. in pag. super. foliorum Silenes Armeriæ, Beverloo Belgii (Westendorp).

247. Septoria dimera Sacc. Mich. II. p. 102. — Maculis vagis, ma-2800 jusculis, sordide ochraceis; peritheciis crebris, minutissimis, vix \(^1/_{12}\) mill. diam., lenticularibus, nigricantibus, sæpius epiphyllis; sporulis cylindraceis crassiusculis, 28-32 \(\pi 4\), utrinque obtusis, leniter curvis, 1-septatis, hyalinis.

Hab. in foliis languidis Silenes nutantis, Saintes Galliæ (Brunaud). — A S. Saponariæ (DC.) satis superque distincta.

248. Septoria dianthicola Sacc. Mich. I. p. 191. — Macul's nullis; 2801 peritheciis hinc inde dense congregatis, punctiformibus, atris; sporulis bacillaribus, curvulis, 15-20 = 1, continuis eguttulatis, hyalinis.

Hab. in foliis Dianthi barbati in silva Montello, Treviso Ital. bor.; in foliis Dianthi Caryophylli, Coimbra Lusitaniæ (Moller). — Cum Sept. Dianthi Desm. nil commune habet.

249. Septoria Sinarum Speg. Nov. Add. p. 165, Sacc. Mich. II. p. 279. 2802 — Maculis albidis, circularibus, majusculis, sæpe totum folium occupantibus; peritheciis amphigenis, gregariis, totam maculam tegentibus, globoso-lenticularibus, minutis, 80-110 μ. diam., poro parvulo pertusis, contextu parenchymatico-membranaceo, fuligineo-olivaceo; sporulis acicularibus, rectis vel curvulis, utrinque acutiuscule rotundatis, 1-2-septatis, ad septa plus minusve constrictis, hyalinis, 20-25 ≈ 2-2½.

Hab. ad folia viva vel languida Dianthi sinensis in hortis, Belluno Ital. bor. vulgatissima.

250. Septoria calycina Kickx Fl. cr. Fl. I. p. 426. — Peritheciis 2803 magnis, brunneo-fuscis dein nigris, amphigenis, innatis prominulis, epidermidem roseam dein luteo-croceam perforantibus; sporulis cylindricis, rectis vel curvatis, utrinque obtusis vel subito attenuatis, 5-7 nucleatis, hyalinis; cirris roseo-pallidis.

Hab. in calycibus Dianthi Carthusianorum, Courtrai in Belgio.

251. Septoria Lychnidis Desm. 17 Not. 6, p. 21, Lasch in Kl. Herb. 2804 Myc. n. 1683. — Maculis amphigenis, irregularibus, brunneo-rubris vel pallide rufis; peritheciis globoso-lenticularibus, innatis fusco-nigricantibus, poro late apertis; sporulis longissimis, linearibus, rectis vel curvatis, 50-70 ≈ 2,5-3, 5-7-septatis, utrinque obtusiusculis, hyalinis.

Hab. in foliis Lychnidis dioicæ in Gallia et Italia bor. 252. Septoria Melandrii Pass. F. Parm. Sept. n. 11. — Maculis sub. 2805 rotundis, exaridis, rubiginosis, area fusca effusa cinctis; peritheciis immersis, badiis, luce transversa tantum perspicuis; sporulis filiformibus, rectis vel flexuosis, integris, obscure nucleolatis, $40-60\approx2.5$.

Hab. in foliis Lychnidis vespertinæ, L. diurnæ in agro parmensi Italiæ bor.

253. Septoria Stellariæ Rob. et Desm. Not. XIV. p. 22. — Amphi- 2806 gena; maculis albidis minutis dein confluentibus; peritheciis minutissimis, fuscis, poro apertis; sporulis bacillaribus, curvulis, 50-60 = 1, indistincte septulatis, hyalinis.

. Hab. in foliis languescentibus Stellariæ mediæ, St. cerastioidis in Gallia, Italia et Sibiria asiatica.

254. Septoria Stellariæ-nemorosæ Roum. Revue Myc. 1882, p. 99, 2807 F. G. n. 2033. — Maculis elongatis, venulis foliorum limitatis; peritheciis distinctis; sporulis ovalibus, $70-90 \approx 35-45$ («an potius $7-9 \approx 3,5-4,5$?»).

Hab. in pag. sup. foliorum Stellariæ nemorum, Malmedy.
— «Potius Phyllosticia».

255. Septoria Cerastii Rob. et Desm. XVII. Not. p. 21, Kickx Fl. I. 2808 p. 435, Sacc. Mich. I. p. 260. — Maculis luteo-pallidis dein griseo-cinereis; peritheciis amphigenis vel caulicolis, in centro maculæ sitis, globoso-lenticularibus, nigris, poro pertusis, 80 p. diam.; sporulis bacillaribus, 30-40 = 1, rectis vel lenissime curvis, obsolete guttulatis, hyalinis; cirris minutis albis.

Hab. in foliis caulibusque languentibus Cerastii vulgati, C. trivialis in Belgio, Ital. bor. et Gallia.

256. Septoria Spergulæ West. Bull. ac. r. Belg. II. ser. t. XII. n. 7, 2309 et Exsicc. n. 1155. — Maculis nullis; peritheciis punctiformibus, nigris, ubique dense sparsis; sporulis cylindricis, rectis vel curvatis, 30 \u22-2,5.

Hab. in foliis et caulibus Spergulæ arvensis. Beverloo in Belgio (Tosquiner).

257. Septoria Scleranthi Desm. 24 Not. 1857, p. 9. — Maculis obli-2810 teratis; peritheciis dense sparsis, innato-prominulis, convexis, nigris, subnitidis, ostiolo minutissimo conico instructis; sporulis linearibus subarcuatis, indistincte nucleolatis, 30-35 μ. longis.

Hab. in foliis et caulibus Scleranthi in Gallia et Britannia.

258. Septoria Violæ West. exs. fasc. 2, n. 91, Kickx Fl. crypt. Fl. 2811

I. p. 434. — Peritheciis epiphyllis, minutis, numerosis, brunneo-luteis, membranaceis, in maculis orbicularibus, pallidis, zonatis, brun-

Sphærioideæ, Scolecosporæ, Septoria.

neo-rufo cinctis; sporulis filiformibus, rectis vel flexuosis, obsolete guttulatis, hyalinis.

Hab. in foliis languidis Violæ caninæ, V. silvestris, V.

pinnatæ in Belgio, Britannia, Italia.

250. Septoria violicola Sacc. Sept. Violæ Rabenh. in Kl. Herb. myc. 2812 n. 1457. Fuck. Symb. myc. App. p. 82. - Peritheciis epiphyllis majusculis, subdiaphanis, convexis macula brunneo-atra punctata cinctis; sporulis lunulato-curvatis, 1-2-septatis, $24 \approx 7-8$.

Hab. in foliis adhuc vivis Violæ bifloræ in Germania et Helvetia. — An Marsonia v. Septoglæum?

260. Septoria Arabidis Sacc. Mich. I. p. 192. — Maculis nullis; pe- 2813 ritheciis in foliis arescendo subochraceis sparsis gregariisque punctiformibus, prominulis ostiolo latiusculo pertusis; sporulis filiformibus, curvulis v. flexuosis, 35-40 = 2, obsolete septatis, continuis, utrinque acutiusculis, hyalinis, denique in cirrum protrusis.

Hab. in foliis Arabidis ciliatæ in alpihus Cadore (Bellu-

no) Ital. bor. (S. Venzo).

261. Septoria Armoraciæ Sacc. Mich. I. p. 187. — Maculis irregu- 2814 laribus, arescendo ochraceis; peritheciis punctiformibus, in centro maculæ aggregatis, diam., 60 μ., poro pertusis; sporulis bacillaribus, curvulis, $15-20 \approx 2-2\frac{1}{2}$, utrinque obtusiusculis, 1-3-septatis minuteque guttulatis, hyalinis.

Hab. in foliis Armoraciæ rusticanæ, Selva in Italia bor. - Ascochyta Armoracie Fuck. Symb. 289. huc forte spectat, sed ibi sporulæ indescriptæ. Quo pertineat Depazea vagans f. Armoraciæ Rbh. Myc. 867 ignoro. Ascochyta Armoraciæ Cooke F. B. n. 32 est vera Phyllosticta.

262. Septoria Berteroæ Thum. Fungi austr. n. 1188. — Peritheciis 2815 minutis, gregariis, conicis, atris in macula nivea expallescente; sporulis filiformibus.

Hab. in foliis vivis Berteroæ incanæ, Hohenstein in Austria inf. (Thümen).

263. Septoria lepidiicola Ell. et Mart. Am. nat. n. 1002. — Maculis 2816 pallidis, subregularibus, 3/4 mill. diam.; peritheciis fusco-castaneis, aggregatis, 74 \u03c4. diam.; sporulis hyalinis, cylindraceis, leviter curvatis, utrinque obtusis, guttulatis vel septatis, $24-33 \approx 2.5-3$.

Hab. in foliis vivis Lepidii virginici West Chester Pensylvaniæ.

264. Septoria Lepidii Desm. Ann. Sc. nat. 1842, XVII. p. 110. — 2817 Amphigena; maculis nullis; peritheciis sparsis vel approximatis,

nigris, innato-prominulis, convexis, demum ore orbiculari late apertis; cirris albis; sporulis elongatis, linearibus, flexuosis, 50-60 µ. longis.

Hab. in foliis vivis Lepidii latifolii, L. campestris, L. officinalis, L. affinis in Italia, Britannia, Belgio, Gallia, Lusitania. Germania et Sibiria asiatica.

265. Septoria Cardamines Fuck. Fungi Rhen. n. 2595. — Pustulis 2818 sparsis, in maculis fusco-nigris effusis, nidulantibus, majusculis. hemisphæricis, primo diaphanis, siccis nigris, depressis; sporulis cylindraceis, vermicularibus, continuis, hyalinis, 60 = 4-6.

Hab. in foliis ceterisque partibus Cardamines pratensis.

quæ hinc nigrescunt et arescunt, in Rhenogovia.

266. Septoria Sisymbrii Ellis Amer. Nat. 1882, p. 811. - Perithe- 2819 ciis minutis, erumpentibus, sparsis vel 3-4 aggregatis; maculis are scendo albidis; sporulis linearibus, 1-2-septatis, $30-40 \approx 3-3.5$, sæpe curvatis, utrinque obtusis.

Hab. in foliis Sisymbrii in America bor.

267. Septoria uliginosa Speg. F. Arg. IV. n. 294. — Maculis magni- 2820 tudine ludentibus, amphigenis, determinatis, suborbicularibus ob confluentiam difformibus candidis v. pallescentibus; peritheciis epiphyllis, centralibus densiuscule gregariis, minutis 80-90, μ. diam., tenuissime membranaceis, contextu minutissime celluloso, fuligineo-olivaceo; sporulis cylindraceo-filiformibus, antice subincrassatulis, rectis v. flexuosis, 30-50 = 2-2.5, hvalinis.

Hab. in foliis vivis Nasturtii Bonaërensis, in uliginosis, Parque de Palermo, Boca del Riachuelo Argentinæ.

268. Septoria Henriquesii Thum. Contr. Myc. Lus. n. 393. - Peritheciis amphigenis, numerosis, gregariis, punctiformi-emersis, opaco-nigrescentibus, parvulis, sine macula sed labes parvas cinerescentes formantibus; sporulis bacillaribus, subrectis v. minime curvulis, utrinque obtuso-rotundatis, uniseptatis, hyalinis vel pallidissime griseolis, $8-11 \approx 2$.

Hab. in foliis vivis languidisve Matthiolæ incanæ in horto botanico Coimbra Lusitaniæ.

269. Septoria Erysimi Niessl Mähr. Kryptogamenflora II. p. 37. — 2822 Hypophylla; maculis pallidis non limitatis; peritheciis gregariis, innatis, minutis, fuscis; cirris pallidis; sporulis fere cylindricis rectis aut curvatis, utrinque obtusiusculis, 24-34 = 2,5, hyalinis, 1-3-septatis, guttulis pluribus.

Hab. in foliis emortuis Erysimi cheiranthoidis prope Gr. Niemtschitz Moraviæ.

270. Septoria Cheiranthi Rob. et Desm. XIV. Not. 20. — Maculis 2823 amphigenis, helvolis, rotundatis vel irregularibus; peritheciis epiphyllis paucis, nigris, prominulis, poro pertusis, dein collabascendo concavis; cirris eburneo-subcarneis; sporulis tenuissimis, 25 = 1, curvulis, 6-8-nucleatis.

Hab. in foliis languescentibus Cheiranthi Cheiri in Gallia et Italia.

271. Septoria Polygalæ Peck et C. Rep. on the St. Mus. N. Y. — Pe- 2824 ritheciis minutis, sparsis vel aggregatis, nigris; sporulis filiformibus, rectis vel leniter curvulis, 25-40 μ. longis.

Hab. in foliis emortuis Polygalæ paucifoliæ. Portage Amer. borealis (CLINTON).

272. **Septoria consocia** Peck, Bot. Gaz. 1880, p. 34. — Peritheciis, 2825-65-75 μ. diam., gregariis, amphigneis, nigris; sporulis filiformibus, rectiusculis, 15-20 μ. longis.

Hab. in foliis vivis languidisve Polygalæ Senegæ cum Æcidio, Michigan Amer. bor. (V. M. Spalding).

273. **Septoria Capparidis** Sacc. Mich. I. p. 185. — Maculis amphi- 2826 genis e circulari angulosis arescendo pallide ochraceis, quandoque elevatis; peritheciis gregariis punctiformibus, atris, globoso-lenticularibus 40-50 μ . diam., poro obsoleto; sporulis filiformi-bacillaribus, $15-20 \approx 1-1\frac{1}{2}$, fasciculatis, rectis, curvulis v. tortuosis, sæpe minute guttulatis, hyalinis.

Hab. in foliis Capparidis rupestris una cum Cystopo Capparidis, Montorio (Verona) Ital. bor. (A. Goiran).

274. Septoria Chelidonii Desmz. in Ann. Sc. natur. 1842, XVII. p. 2827 110. — Ascochyta Chelidonii Lib. Exs. n. 204. Spilosphæria Chelidonii Rabenh. F. Eur. n. 552. — Maculis angulosis vel rotundatis, viridi-olivaceis, brunneis, subinde centro aridis; peritheciis amphigenis, innatis, minutis, leniter applanatis; cirris luteis; sporulis filiformi-bacillaribus, 20-30 ≈ 1,5, curvulis, continuis, hyalinis.

Hab. in foliis languidis Chelidonii majoris in Italia, Belgio, Britannia, Gallia, Sibiria.

275. Septoria Anemones Desm. Exs. n. 940, Kickx Fl. cr. Fl. I. p. 2828 426. — Peritheciis epiphyllis minimis, gregariis, in macula fusca, medio expallescenti-viridula; sporulis 20-22 = 1-1,3, obsolete 6-8-guttulatis, filiformibus, tenuissimis, ex peritheciorum apicibus profluentibus.

Hab. in foliis Anemones trifoliæ et nemorosæ in Italia, Belgio, Gallia, Germania.

276. Septoria silvicola Desm. Exs. n. 690, Kickx Fl. cr. Fl. I. p. 420 2829

Ascochyta anemonea Lib. Exs. n. 159. — Maculis nullis v. indeterminatis; peritheciis epiphyllis, globulosis dein depressis, nigris, sparsis; sporulis filiformibus majusculis 8-10-nucleatis, opacis; cirris albis.

Hab. in foliis Anemones nemorosæ, quæ hinc flavescunt

vel fuscescunt, in Gallia et Belgio.

277. Septoria Hepaticæ Desm. Ann. Sc. nat. 1843, p. 340. Kickx 28.0 Fl. Fl. I. p. 434. — Epiphylla; maculis brunneo-nigricantibus, demum albidis orbiculatis vel irregularibus et confluentibus; peritheciis innato-prominulis, minutissimis, nigris, poro apertis; ostiolis punctiformibus; sporulis filiformibus flexuosis, subcontinuis, 25-30 ≈ 0,7, guttulatis, hyalinis.

Hab. in foliis Hepaticæ trilobæ in Italia, Belgio.

278. Septoria Cajadensis Speg. Nov. Add. n. 163 Sacc. Mich. II. p. 2831 279. — Maculis albicantibus, cinereis vel ochraceis, rotundatis vel angulosis, sæpe pluribus confluentibus, concentrice rugosis; peritheciis minutis 80-90 μ. diam., globoso-lenticularibus, membranaceo-fuligineis, poro latiusculo pertusis; sporulis bacillaribus, rectis vel curvulis, medio 1-septatis, non vel granuloso-farctis, hyalinis, 20-25 ≈ 1.

Hab. ad folia viva vel languida Eranthidis hyemalis in silva alpina Cajada Ital. bor.

279. Septoria Trollii Sacc. et Winter, Hedwigia 1883, pag. 180. — 2832 Maculis vagis, amphigenis sed sæpius epiphyllis, arescendo ochraceo-expallentibus, subimmarginatis; peritheciis perexiguis, tectis (spuriis?), gregariis, fuscellis, 40-50 μ. diam.; sporulis filiformibus, curvulis, 40-50 π 1-1,5, continuis, subinde spurie 1-septatis, hyalinis.

Hab, ad folia viva Trollii europæi, Rigi prope Luzern Helvetiæ.

280. Septoria Ficariæ Desm. Exs. n. 1087, Kickx Fl. Fland. I. p. 434. 2833 Sacc. Mich. II. p. 346. — Maculis epiphyllis cinerescentibus, variis, subinde brunneo-marginatis; peritheciis lenticularibus, 70-80 μ. diam. pertusis, contextu parenchymatico, ochraceo-fusco; sporulis filiformibus, 25-35 ≈ 1-11/4, continuis, hyalinis, rectiusculis.

Hab. in foliis Ficariæ ranunculoidis in Italia, Britannia, Belgio, Gallia.

281. Septoria ficariæcola Sacc. Misc. Mycol. F. Gali. n. 2246. (An 2834 Depazea ficariæcola Lasch, Bot. Zeit. 1844, p. 426). — Maculis `arescendo ochraceo-pallidis, immarginatis sæpius epiphyllis; peri-

523

theciis punctiformibus depressis, atris, perforatis, $50 ext{ a. diam.; sporulis}$ bacillari-fusoideis, 1-septatis, $18-20 ext{ a. l.}$ 5, subinde curvulis, hyalinis.

Hab. in foliis Ficariæ ranunculoidis in Gallia, socio Meidio Ficariæ et Ecidiolo exanthematico f. Ficariæ: conidiis ovci-

deis, hyalinis, $5-6 \approx 3$.

282. Septoria Ranunculacearum Lév. in Demid. Voy. p. 114, t. V. f. 4. 2835 — Maculis brunneis; peritheciis punctiformibus, atris, sæpius epiphyllis; sporulis filiformibus, rectis vel curvulis, utrinque acutis, 50-70 \(\approx\) 1\(\frac{1}{2}\), pluriguttulatis, hyalinis.

Hab. in foliis Ranunculi acris, R. Cymbalariæ in Gallia, Italia, Sibiria Tauria. — Diagnosim originalem non vidi.

283. Septoria Ranunculi West. Bull. ac. roy. belg. II. ser. t. XII. 2836 n. 7. — Maculis epiphyllis, rotundatis, luteo-viridibus, pallidocinctis: peritheciis minutis, brunneis, paucis (1-3); sporulis fusiformibus, utrinque attenuatis, 4-6-globoso-nucleatis, hyalinis, $50-60 \approx 2,5$.

Hab. in foliis Ranunculi scelerati, Louvain in Belgio.

284. Septoria oreophila Sacc. Mich. II. p. 280. — Maculis minutis ²⁸³⁷ albicantibus, olivaceo-marginatis, amphigenis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, 60-65 \(\pi 4-4\frac{1}{2}\), 3-septatis, hyalinis.

Hab. in foliis Ranunculi aconitifolii nondum emortuis,

M. Grappa, Ital. bor. (A. Ross).

285. Septoria polaris Karst. Hedw. 1884, p. 38. — Peritheciis amphigenis, hinc inde dense gregariis, sæpe maculis indeterminatis obsoletis arescendo expallentibus vel nigrescentibus insidentibus; subcutaneis, emergentibus, conoideo-sphæroideis, demum pertusis, nitentibus, 0,1 mill. diam.; sporulis fusoideo-bacillaribus, rectis, guttulatis, hyalinis, 16-30 \(\times 2-3\).

Hab. in foliis languescentibus Ranunculi lapponici ad Adventbay (Th. Fries).

286. Septoria cymbalarina Thum. Pilzfl. Sibir. n. 810. — Perithe- 2830 ciis amphigenis, dense gregariis, maculas asteroideas nigras efficiens, conico-emersis, parvis, nitido-nigris; sporulis filiformibus, rectis vel subcurvis, utrinque acutatis, medio plerumque uniseptatis, hyalinis, 20-24 ≈ 1,5.

Hab. in foliis languidis aridisve Ranunculi Cymbalariæ, Minussinsk Sibiriæ asiaticæ. — A Septoria Ranunculacearum et S. Ficariæ longe diversa.

287. Septoria Hellebori Thum. Fung. Austr. n. 898. Revue Mycolog. 2840

IV. p. 217. — Peritheciis minimis, subimmersis, atris in macula spadicea, arida; sporulis.....

Hab. in foliis vivis Hellebori nigri pr. Hieflau Styriæ et

pr. Gorizia, et Hellebori fætidi, Fontainebleau Galliæ.

288. Septoria Clematidis Rob. et Desm. in Ann. Scienc. nat. 1853, 2841 XX. p. 93. — Maculis griseo-fuscis, amphigenis, circularibus vel angulosis fusco-marginatis; peritheciis amphigenis, minutissimis, innatis, pallido-brunneis, apice pertusis; sporulis bacillaribus, 70-80 = 4, utrinque obtusiusculis, quandoque subclavulatis, leniter curvis, 4-6-septatis, hyalinis.

Hab. in foliis vivis Clematidis Vitalbæ in Britannia, Italia, Austria inf., in foliis Clematidis glaucæ, Minussinsk Sibiræ. — Sept. Clematidis Cooke F. B. n. 33 est potius Phyl-

losticta.

289. Septoria Flammulæ Passer. Fung. Parm. Sept. n. 2 (in nota). 2842

— Maculis subrotundis exaridis, areola ampla fusco-violacea cinctis; peritheciis centralibus subcircinatis prominulis; sporulis tenuibus breviusculis continuis non nucleolatis.

Hab. in foliis Clematidis Flammulæ, Monticci prope Firenze in Italia.

290. **Septoria Clematidis-Flammulæ** Roumeg. Revue Mycolog. V. p. 2843 178. — Maculis rotundatis, minutis, griseis, dein albis lucidisque, brunneo-cinctis; peritheciis plerumque marginalibus; sporulis filiformibus, utrinque acutis, rectis, hyalinis, 3-5-septatis, 30-35 = 2-2,5.

Hab. in foliis Clematidis Flammulæ, Barbizon Galliæ.

291. **Septoria Ienissensis** Sacc. Mich. II. p. 114. — Maculis nullis 2844 v. obsoletis; peritheciis amphigenis laxe gregariis, punctiformibus, lenticularibus, $\frac{1}{10}$ - $\frac{1}{8}$ mill. diam., contextu minute parenchymatico, fusco; sporulis bacillaribus rectiusculis v. curvis, utrinque rotundatis, $30-40 \approx 3$, 1-septatis, hyalinis; basidiis (ut plerumque more generis) nullis.

Hab. in foliis languidis Clematidis glaucæ ad ripas fl. Je-

nissei in Sibiria asiatica (Martianoff).

292. Septoria Clematidis-rectæ Sacc. Myc. Ven. n. 321 et Fungi Ven. 2845 V. p. 205. — Maculis albido-griseis, variis, exaridis; peritheciis generis, paucis; sporulis crassiuscule vermicularibus, 38-40 = 3-3,5, 3-septatis, hyalinis.

Hab. in foliis languidis Clematidis rectæ, Covolo (Treviso)

Ital. bor. - Sporularum forma a S. Clematidis Desm. statim dignoscitur.

293. Septoria Viticellæ Passerini in Rabenhorst Fungi europæi, n. 2846 1954, Funghi Parm. Sept. n. 1. — Amphigena; peritheciis sparsis vel laxe irregulariter gregariis, punctiformibus, atris; sporulis longis subcurvis continuis in cirrum album effluentibus.

Hab. in foliis Clematidis Viticellæ, Parma in Italia bor.

294. Septoria Delphinella Sacc. Mich. II. p. 347. — Maculis amphi- 2847 genis, fusco-olivaceis; peritheciis subsparsis, punctiformibus, lenticularibus, pertusis, 120 μ. diam., contextu distincte parenchymatico, fuligineo; sporulis acicularibus, curvulis, 45-50 ≈ 2, obsolete 3-septatis, deorsum crassioribus, hyalinis.

Hab. in foliis Delphinii Ajacis nondum emortuis, Saintes Galliæ (Brunaud).

295. Septoria Staphysagriæ Winter Contr. Myc. Lus. n. 805. — Pe-2848 ritheciis in macula rotundato-angulata, demum irregulari, medio pallida exaridaque, late fusco cincta, determinata, amphigenis, gregariis, punctiformibus, atris, 50-70 μ . lat.; sporulis bacillaribus, sæpe parum curvatis, utrinque subattenuatis non vel vix visibiliter uniseptatis, hyalinis, $10-16 \approx 1^{1}/_{2}$.

Hab. ad folia viva Delphini Staphysagriæ, Serra d'Arrabida Lusitaniæ.

296. Septoria Lycoctoni Speg. Dec. Mycol. 118, Sacc. Mich. II. p. 2849 167. — Maculis parvulis irregularibus, candidis, zona atro-fusca cinctis; peritheciis laxe gregariis, parvulis, parenchymate immersis, lenticularibus, 100-120 μ. diam., ostiolo parvulo pertusis, contextu membranaceo-parenchymatico fuligineo; sporulis filiformibus indistincte pluriseptatis, rectis curvulisve, 25-35 ≈ 1½-2, hyalinis.

Hab. in folils vivis v. languidis Aconiti Lycoctoni in silva Cansiglio Ital. bor. (Spegazzini).

297. Septoria Napelli Speg. Nov. Add. n. 162. Sacc. Mich. II. p. 166. 2850 — Maculis nullis; peritheciis hypophyllis, laxe gregariis vel sparsis, subcutaneis, udis prominulis, siccis cupulatis et difficillime perspicuis, atro-olivaceis, majusculis, 120-130 p. diam., ostiolo minuto pertusis, lentiformi-hemisphæricis, contextu fuligineo-olivaceo, membranaceo-parenchymatico; sporulis cylindraceo-filiformibus, gutulatis vel septulatis, 50-100 = 2-4, hyalinis.

Hab. ad folia viva Aconiti Napelli in alpinis Salattis et M. Stella Cadore Ital. bor.

298. Septoria Aquilegiæ Penz. et Sacc. F. Mont. Gener. n. 120 - 2851

Maculis effusis, fuligineis vel atris; peritheciis dense gregariis, minutissimis, punctiformibus, 70-80 a. diam., depressis, ostiolatis, contextu parenchymatico, atro-brunneo; sporulis rectiusculis vel leniter curvulis, utrinque attenuatis, filiformibus, continuis, eguttulatis, $25-30 \approx 0.5-0.8$; basidiis obsoletis.

Hab. in foliis vivis Aquilegiæ atratæ in pratis Montis Generosi Insubriæ (O. Penzig).

299. Septoria podophyllina Peck Bot. Gaz. 1879, p. 170. — Macu- 2852 lis latiusculis, indefinitis, rubro-brunneis; peritheciis epiphyllis, paucis, in centro macularum insidentibus pallido-nigris, prominulis, siccis collabentibus; sporulis filiformibus, longitudine variabilibus, plus minusve curvatis, 20-38 µ. longis.

Hab. in foliis vivis Podophylli peltati, Illinois Amer. bor.

(S. A. FORBES).

300. Septoria Coptidis B. et C. North Americ. Fungi n. 436 bis. - 2853 Maculis rufulis rufo-marginatis; sporulis brevioribus filiformibus, 25 a. longis, rectis.

Hab. in foliis Coptidis, Wisconsin Amer. bor.

301. Septoria macropora Sacc. Mich. II. p. 538. — Maculis sapius 2854 epiphyllis, angulosis, inter nervos, sordide et pallide fuscis, non marginatis; peritheciis regulariter gregariis, globuloso-lenticularibus, velatis, 120-140 \u03c4. diam., poro amplo apertis, contextu tenuissimo parenchymatico, fulvo-pallescente; sporulis bacillaribus, curvulis v. subflexuosis, $45-55 \approx 1.5-2$, 4-6-guttulato-pseudoseptatis, hyalinis, utrinque obtusiusculis.

Hab, in foliis languidis Pæoniæ officinalis in M. Generoso Insubriæ (O. Penzie). — Sept. Paoniae West., Lamb. Myc. Belg. III. p. 125 differt maculis atrocinctis, peritheciis nigricantibus etc.

302. Septoria Martianoffiana Thüm. Pilzfl. Sibir. n. 117. - Perithe- 2855 ciis epiphyllis, gregariis vel raro sparsis, in maculis amphigenis, exaridis, fuscis, demum albescentibus orbiculatis, obscurius marginatis, subglobosis, atris; sporulis cirro hyalino spirali ejectis, fusiformibus, curvatis, uni-biseptatis, utrinque acutatis, longissimis, achrois, $45-60 \approx 2-2.5$.

Hab, in foliis vivis Paroniae anomalae in subalpinis prope Utunschul Sibiriæ asiaticæ.

303. Septoria Pæoniæ West. Bull. ac. roy. belg. t. XIX. n. 9. -- 2856 Maculis epiphyllis, rotundatis, brunneis, purpureo-cinctis; peritheciis agglomeratis, immersis, brunneis; ostiolo poriformi; sporulis cylindricis, flexuosis, utrinque obtusis, 10-15-nucleolatis.

Hab. in foliis Pæoniæ sinensis, Namur, Belgio (Bellynck). — Forma in foliis Pæoniæ officinalis lecta prope Rouen Galliæ (Letendre) præbet sporulas bacillares $15-20 \approx 1\frac{1}{2}$, spurie I-septatas, hyalinas.

304. Septoria Saxifragæ Pass. Micr. ital. n. 16. — Maculis subdiscoi- 2857 deis, castaneo-fuscis, centro perithecia immersa vix perspicua, foventibus; sporulis bacillaribus rectis, integris hyalinis, 17-30 ≈ 3.

Hab. in foliis Saxifragæ rotundifoliæ in Apennino parmensi ad Lago santo.

305. Septoria Sedi West. Exs. n. 943, Kickx Fl. cr. Fl. t. I. pag. 2858 429. Ascochyta Sedi Lib. Exs. n. 249. — Epiphylla; maculis circularibus, griseis dein griseo-brunneis; peritheciis minutis, numerosis brunneis, sparsis, erumpentibus; sporulis cylindricis, rectis vel leniter curvatis, 5-nucleatis; cirris albis.

Hab. in foliis Sedi Telephii in Belgio et Anglia.

306. Septoria Diapensiæ Karst. Fung. Vain. p. 142. — Peritheciis 2859 sparsis v. laxe gregariis, raro confertis, rotundatis, erumpenti-superficialibus, atris, 10J-150 μ. diam.; sporulis bacillaribus v. cylindraceis guttulatis v. spurie tenuiter pluriseptatis, rectis, subchlorino-hyalinis, 17-21 ≈ 2.

Hab. in foliis emortuis Diapensiæ lapponicæ in Lapponia extrema (VAINIO).

307. Septoria Cucurbitacearum Sacc. Fungi Ven. V. p. 205. — Ma- 2860 culis albis, subcircularibus angulosisve, exaridis; peritheciis lentiformibus, 70-90 diam., poro late hiantibus; sporulis anguste vermicularibus, tortuosis, 60-70 ≈ 1, septulatis, hyalinis.

Hab. in foliis languidis Cucurbitæ Peponis, C. maximæ et Bryoniæ dioicæ in agro parmensi, veneto, goritiensi, in Lusitania et America boreali.

308. Septoria Cyclantheræ Speg. F. Arg. Pug. II. n. 113. – Maculis $_{2861}$ pallide fuscescentibus pellucidis, $_{1}$ -5 mill. diam., indeterminatis, anguloso-difformibus; peritheciis minutissimis, $_{70}$ -80 $_{90}$. d., globosolenticularibus, poro minuto pertusis atris tenui-membranaceis, contextu parenchymatico, fuligineo; sporulis filiformibus, flexuosis, hyalinis, granuloso-farctis, $_{40}$ -50 $_{80}$ l- $_{10}$ 1, continuis.

Hab. in foliis languidis Cyclantheræ Hystricis in umbrosis secus Rio de la Plata cerca de la Recoleta Argentinæ.

309. Septoria autumnalis Speg. F. Arg. Pug. IV. n. 284. — Maculis 2862 parvulis 0,5-1 mill. diam., amphigenis, determinatis, candidis, sub orbiculari-angulosis non v. vix areola pallescente cinctis; perithe-

ciis epiphyllis, centralibus minutis, 70-80 μ . d., paucis, lenticularibus tenuissime membranaceis, contextu parenchymatico olivaceo-fuligineo, ostiolo latiusculo; sporulis bacillari clavulatis, curvulis utrinque obtusiusculis 25-30 \approx 1, grosse guttulatis v. pseudoseptatis, hyalinis.

Hab. in foliis vivis v. languidis Trianospermæ ficifoliæ in dumetis numerosis, Parque de Palermo Argentinæ.

310. Septoria Umbelliferarum Kalchbr. Grev. 1880 p. 20. — Maculis 2863 suborbicularibus, fuscis; peritheciis in centro maculæ sitis, punctiformibus; sporulis 35-50 μ. longis linearibus, rectis vel flexuosis, hyalinis.

Hab. in foliis Umbelliferarum in Africa australi.

311 Septoria Heraclei Desm. Esx. n. 534. Aschochyta Heraclei Lib. 2364 Exs. num. 51. — Amphigena sed distinctius hypophylla; maculis nullis v. obsolete flavicantibus; peritheciis sparsis v. maculiformiter aggregatis innatis, brunneis, subglobosis, pertusis; cirris albidis; sporulis cylindraceis, curvatis, 45-50 \approx 3,5-4, utrinque obtusis, 5-nucleatis vel 4-septatis, hyalinis.

Hab. in foliis Heraclei Sphondylii in Britannia, Italia, Germania et Hollandia.

312. Septoria Oreoselini (Lasch) Sacc. Mich. I. p. 128. Ascochyta 2865 Oreoselini Lasch, in Kl. Herb. myc. n. 856 (non vidi). — Maculis subcircularibus expallentibus rufo-marginatis; peritheciis punctiformibus, lenticularibus, pertusis, 80-85 μ . diam.; sporulis filiformibus, curvulis, $25-26 \approx 1^{1}/_{2}$, continuis, hyalinis.

Hab. in foliis Peucedani Oreoselini in Germ. et Austria.

313. Septoria Pastinacæ West. Exic. n. 639, Kickx Fl. Fl. I. p. 424. 2866 — Maculis indeterminatis pallide viridibus dein brunneolis; peritheciis sæpius hypophyllis, globuloso-depressis, pertusis, subaggregatis; sporulis bacillaribus, pluri-(16-20)-guttulatis septulatisque, hyalinis, 60 = 2; cirris pallide carneis.

Hab. in foliis languidis Pastinacæ sativæ in Gallia, Belgio, Italia.

314. Septoria pastinacina Sacc. Mich. II. p. 102. Peck 33 Rep. St. 2867 Mus. p. 24. Sept. Pastinacæ Sacc. Mich. I. p. 188, nec West. — Maculis diffusis, indefinitis, brunneis; peritheciis minutis, 120-150 μ. diam. applanatis, ostiolo epidermidem perforante, nigris; sporulis filiformibus curvis vel flexuosis, 20-30 ≈ 0,7-1.

Hab. in caule Pastinacæ sativæ, pr. Treviso Ital. bor. et Albany Amer. bor.

315. Septoria bupleuricola Sacc. Septoria Bupleuri Thum. Pilzfl. Sib. 2868 Thum. n. 628. — Peritheciis epiphyllis, dense gregariis, conico-emersis, nitido-aterrimis in maculis orbicularibus primo indeterminatis, et fuscis, demum arescendo albo-griseis, fusco-fuligineo late marginatis; sporulis numerosis, bacillaribus, rectis vel raro subcurvatis, utrinque obtusis, continuis, hyalinis, 24-30 × 2.

Hab. ad folia viva Bupleuri aurei in silvis subalpinis pr. fluvium Baraksan Sibiriæ asiaticæ. — Ut videtur, Depazea Bupleuri Fuck. Symb. mycol. p. 382 huc forte spectat sed sporulæ non descriptæ sunt!

316. Septoria Bupleuri Desm. 17 Not. 1849. p. 20, Exs. n. 1317. — 2869 Maculis minutis, subrotundis, albidis, nigro-cinctis; peritheciis hypophyllis, paucis, poro apertis; cirris albis; sporulis elongatis curvulis vel rectis, utrinque obtusis, 50 p. longis, 3-septatis.

Hab. in foliis Bupleuri fruticosi et frutescentis in Gallia et Lusitania.

317. Septoria Ægopodii (Pr.) Sacc. Cryptosporium Ægopodii Preuss 2870 F. Hoyersw. n. 322. — Maculæ crustaceæ sparse insidens; peritheciis innatis, dein erumpentibus, atris; basidiis conicis, hypostromati celluloso insidentibus; sporulis longissimis, clavato-filiformibus, albis; episporio glabro; nucleo turbido.

Hab. ad folia Ægopodii, Hoyerswerda.

318. Septoria ægopodina Sacc. Mich. I. p. 185: — Maculis epiphyllis, minutissimis, angulosis brunneis dein arescendo dealbatis, rufomarginatis; peritheciis sparsis punctiformibus, lenticularibus, 70 μ . diam., pertusis; sporulis filiformibus, exilibus, $25 \approx 1^{1}/_{4}$, leniter curvis, minute pluri-guttulatis, hyalinis.

Hab. in foliis Ægopodii Podagrariæ in silva Montello, Treviso et Parma Italiæ bor. — Cum Septoria Podagrariæ Lasch. (= S. Ægopodii Desm.) nec non cum ejus varietate β. Rabenhorstii Kx. Flandr. I. 427 hæc species nil commune habet.

319. Septoria Podagrariæ Lasch in Herb. myc. n. 458, Septoria Æ- 2872 gopodii Desm. Crypt. Franc. 616. Ascospora Ægopodii de Thüm. Fung. austr. 149. — Maculis lacteis vel pallidis; peritheciis epiphyllis innatis in pagina folii utraque prominulis subsphæroideis poro pertusis, atris latit. circiter 150 μ. diam.; sporulis cylindraceis, curvulis hyalinis, 70-80 ≈ 3-4, 6-7-nucleatis.

Hab. in foliis vivis Ægopodii Podagrariæ in Germania, Italia, Britannia, Gallia, Belgio.

320. Septoria Sii Rob. et Desm. Not. XXI. pag. 8. Ascochyta Sii 2873

Lasch. — Maculis suborbicularibus dein angulosis, luteis dein brunneis, tandem albidis, sæpe flavido-marginatis; peritheciis epiphyllis, minutis, brunneis, leniter prominulis; sporulis filiformibus, rectis vel curvatis, 10-20-nucleolatis, $30-40 \approx 2.5$; cirris albis.

 $\it Hab.$ in foliis Sii latifolii et S. angustifolii in Belgio, Italia, Gallia. — Duas formas observavi in Sio angustifolio in agro Veneto, nempe: $\it foliicola$ sporulis filiformibus, curvulis, $30 \approx 1^{1}/_{2}$, continuis, eguttulatis; et $\it caulicola$ peritheciis perfectioribus, sporulis $40 \approx 2$, 7-8-guttulatis. Hæc postrema forte distinguenda.

321. Septoria desciscens Sacc. Mich. II. p. 143. — Peritheciis hypophyllis, dense gregariis epidermide nigrificata velatis, sed prominulis, globoso-depressis, 1/8 mill. diam. nigris, ostiolo impresso, contextu distincte parenchymatico fuligineo; sporulis bacillaribus, curvulis, utrinque rotundatis, 48-60 = 4-5, plasmate 2-4-partito, hyalinis, basidiis teretibus sed irregulariter hinc inde inflatis dimidio brevioribus suffultis.

Hab. in foliis Seselis stricti in salsis prope Lacum Tagarskoje Sibiriæ (Martianoff). — Præsertim basidiis abnormibus distincta.

322. Septoria Sisonis Sacc. Misc. Myc. F. Gall. n. 2248. — Maculis variis expallentibus; peritheciis copiosis, punctiformibus, atris; sporulis bacillaribus, obtusiusculis, obsolete 3-septatis, $30 \approx 1.5$, hyalinis.

Hab. in foliis Sisonis Amomi, Saintes Galliæ (Brunaud). — Ab affini Sept. Petroselini differt sporulis brevioribus, maculis diversis.

323. Septoria Petroselini Desm. Exs. n. 674 Kickx Flor. Fl. I. p. 2876 424, Depazea Petroselini Desm. Ann. Sc. nat. Bot. 1840, p. 10.

— Maculis brunneolis dein candidis, determinatis, amphigenis; peritheciis minutis, tenuissime membranaceis pertusis, lenticularibus, contextu parenchymatico, olivaceo; sporulis filiformibus rectis v. flexuosis, 6-10-guttulatis vel indistincte septulatis, hyalinis, 35-40 \approx 1-2.

Hab. in foliis vivis v. languidis Petroselini sativi in Gallia, Belgio, Germania, Italia et America australi.

324. Septoria Anthrisci Passer. et Brun. Revue Mycolog. II. p. 250.

— Peritheciis solitariis (an semper?) in maculis pallidis discoideis, parenchymate immersis, membranaceis; sporulis filiformibus, rectis vel curvulis, tenuibus, eguttulatis, integris, 40-55 2. longis.

Hab. in foliis Anthrisci vulgaris, Montroy in Gallia (FOUCAUD).

325. Septoria Levistici West. Bull. ac. roy. belg. II. ser. t. XII. 2878 n. 7. - Maculis rotundatis vel irregularibus, latis, brunneis dein albescentibus, margine obscuriore cinctis; peritheciis minutissimis, numerosis, sparsis; sporulis cylindricis, filiformibus, rectis vel curvatis. $30-40 \approx 1-1.3$.

Hab. in foliis Ligustici Levistici in Belgio (Bellynck).

326. Septoria Bowlesiæ Speg. F. Argent. Pug. IV. n. 285. - Ma- 2879 culis amphigenis, subindeterminatis, orbiculari-difformibus fuscogriseis magnitudine variis, sæpe totum fere folium occupantibus, sæpe centro albis; peritheciis subperiphericis, subcircinantibus, parenchymate immersis minutissimis, 80-90 u. diam., fusco-olivaceis, tenui-membranaceis, contextu parenchymatico, olivascenti, ostiolo latiusculo pertusis; sporulis filiformibus, rectis v. flexuosis 50-60 ≈ 1-1,5, utringue acutiuscule rotundatis, 3-septatis, hyalinis.

Hab, in foliis vivis Bowlesiæ teneræ in herbosis. Boca del Riachuelo Argentinæ.

327. Septoria Spegazzinii Sacc. Septoria Hydrocotyles Speg. F. Arg. 2880 Pug. IV. n. 288, nec Desm. - Maculis subnullis, indeterminatis, primo flavescentibus dein fulvescentibus, amphigenis, magnitudine ludentibus, sæpius confluentibus; peritheciis sæpius hypophyllis, sparsis, minutis, 70-80 y. d., etiam lente ægre conspiciendis, lenticularibus, tenuissime membranaceis, parenchymaticis, fuscidulis, ostiolo latiusculo impresso pertusis; sporulis cylindraceo-subclavulatis, leniter curvulis v. flexuosis, utringue obtusiusculis, 45-50 = 1,5, granuloso-farctis, indistincte septulatis, hyalinis.

Hab. in foliis vivis Hydrocotyles bonariensis in uliginosis herbosis, Recoleta Argentinæ.

328. Septoria Hydrocotyles Desm. Ann. Sc. nat. Ser. II, v. XVII. 2881 p. 109. - Epiphylla; maculis irregularibus, rufis v. brunneolis dein pallidis; peritheciis minutis, innatis, poro pertusis; sporulis linearibus, curvulis, 8-10-guttulatis, hyalinis, 16-25 = 1-2, cirro albido.

Hab. in feliis languidis Hydrocotyles vulgaris in Gallia, Belgio et Britannia.

329. Septoria nesodes Kalch. in Grevillea, 1880, p. 20. - Epiphyl- 2882 la; maculis irregularibus, fuscis; peritheciis immersis, membranaceis; sporulis cylindricis, obtusis, multinucleatis, rectis vel curvulis, 20-25 v. longis.

Hab. in foliis Hydrocotyles Asiaticæ in Africa australi.

330. Septoria Eryngii Passer. F. Parm. Sept. n. 57. — Peritheciis 2883 carbonaceis sphæriæformibus sparsis hypophyllis; sporulis tenuissimis, brevibus, continuis, rectis vel curvis, 20-25 ≈ 1-1,5.

Hab. in foliis putrescentibus Eryngii campestris, Parma Italie borealis.

331. Septoria Visci Bresad. in litt. ad me et in Hedw. 1883, p. 180. 2884 — Maculis subcircularibus amphigenis lutescentibus, nonnihil elevatis, margine concolori; peritheciis in centro maculæ hypophylle copiosis, densis, globoso-lenticularibus, late pertusis, atris, ½-1/6 mill. diam.; sporulis anguste bacillari-fusoideis, leniter curvis, 20-34 = 1,5, spurie obsolete 1-3-guttato-septulatis, hyalinis, utrinque obtusiusculis, curvulis v. flexuosis, raro rectis.

Hab. in foliis adhuc vivis Visci albi in silvis tridentinis

(BRESADOLA).

332. Septoria Schelliana Thum. Fungi aliq. Kirghis. n. XI. — Pe-2885 ritheciis epiphyllis, minutis, gregariis, subglobulosis, atris, semiimmersis in macula primo atro-brunnea, demum arescendo albo-grisea, marginata; sporulis bacillaribus, minime arcuatis, utrinque obtusiusculis, æqualibus, 5-7-septatis, hyalinis, 42-48 \approx 2,5.

Hab. ad folia viva Pirolæ secundæ, Sanarka, Orenburg

Rossiæ.

333. Septoria Lobeliæ Peck Report of the Botanist. 1872, p. 87. — 2886 Maculis orbicularibus, sæpe confluentibus, aridis, pallidis vel pallide lacteis, nigro- vel brunneo-purpureo-marginatis; peritheciis minutis, numerosis, nigris, adpressis, amphigenis; sporulis filiformibus, simplicibus, 17-25 µ. long.

Hab. in foliis Lobelia spicata, Nassau, Rensselaer county America borealis.

334. Septoria Menyanthes Desm. 21 Not. 4, p. 5. Ascochyta Me- 2887 nyanthes Lib. Exs. n. 251. — Amphigena; maculis fusco-rufis, irregularibus, non limitatis; peritheciis minutissimis concoloribus, poro pertusis; cirris albis; sporulis elongatis, linearibus, rectis vel curvulis, vix nucleatis, 30-40 = 1,6.

Hab. in foliis languescentibus Menyanthes trifoliatæ in Gallia, Belgio, Britannia et Sibiria asiatica.

335. Septoria Soldanellæ Speg. Dec. Mycol. 115, Sacc. Mich. II. p. 2888 167. — Amphigena; maculis primo obscuris dein arescendo candidis sepeque totum folium occupantibus; peritheciis globulosis, parvulis, 70-80 p. diam., contextu membranaceo-parenchymatico

Sphærioideæ, Scolecosporæ, Septoria. 533

atrofuligineo, ostiolo late hiante pertuso; sporulis filiformibus, continuis (?), 20-30 = 1, hyalinis.

Hab. in foliis Soldanellæ alpinæ in M. Pizzocco (Cadore) Ital. bor. (Spegazzini).

336. Septoria Cyclaminis Dur. et Mont. Syll. p. 279. — Epiphylla; 2889 maculis rufis demum centro cinerescentibus; peritheciis innato-prominulis, punctiformibus, numerosis, fuscis; sporulis cylindricis, exilibus, curvulis vel rectis, haud distincte septatis, 25-30 = 1, hyalinis.

Hub. in foliis Cyclaminis hederifolii et europæi, Al-

ger (Durieu), in agro Treviso Ital. bor. (SACCARDO).

337. Septoria Lysimachiæ West. in Bull. de Bruxel. 1852, III. p. 120. 2890 — Maculis indeterminatis, brunneis; peritheciis epiphyllis, minutis, poro terminali pertusis; sporulis linearibus rectis vel lenissime curvulis, 4-6-septatis, hyalinis, 50 ≈ 1,5.

Hab. in foliis Lysimachiæ nummulariæ et L. vulgaris

in Belgio, Italia, Britannia, Germania.

338. Septoria increscens Peck 33 Rep. St. Mus. 25. — Maculis ini- 2891 tio minutis, dein majoribus, brunneis, centro aridis; peritheciis minutis, nigris; sporulis filiformibus, curvatis vel flexuosis, 30-40 μ. longis.

Hab. in foliis Trientalis Americanæ, Charlton Amer. bor.

339. Septoria Wilsoni Clinton in Peck Rep. on the St. Mus. N. Y. — 2892 Maculis sparsis, suborbicularibus, aridis, albidis vel pallidis, fuscocinetis; peritheciis minutis, nigris; sporulis filiformibus, curvatis, nucleolatis, 35-50 p. longis.

Hab. in foliis Chelones glabræ, Buffalo Amer. bor.

340. Septoria Phlogis Sacc. et Speg. in Mich. I. p. 184. — Macu- 2993 lis subcircularibus minutis albis, late fuligineo-rufo-marginatis; peritheciis sparsis paucis, punctiformibus, lenticularibus, $150-200~\mu$. diam, pertusis, laxe ochraceo-parenchymaticis; sporulis bacillaribus, flexuosis, $40-60 \approx 1-2$, tenuiter 1-3-septatis, hyalinis.

Hab. in foliis Phlogis paniculatæ, Conegliano Italiæ bor.

(SPEGAZZINI).

341. Septoria verbascicola B. et C. Rep. on the St. Mus. N. Y. (no-2894 men sine diagnosi).

Hab. in foliis Verbasci Blattariæ, Albany et Buffalo Americæ borealis.

342. Septoria exotica Speg. F. Arg. Pug. II. n. 107. — Maculis minu- 2895 tis, 1-3 mill. lat., dense sparsis, quandoque confluentibus amphige-

nis, superne candidis, determinatis, zona latiuscula purpurascenti cinctis, inferne subindeterminatis, fulvo-fuscescentibus, zona saturiore concolore ornatis; peritheciis atris, parvulis, epiphyllis 80-90, μ . d., lenticularibus tenui-membranaceis, paucis, contextu parenchymatico-olivaceo; sporulis bacillari-fusoideis, utrinque acutiusculis, rectis v. subcurvulis, granuloso-farctis $15-30 \approx 1-1,5$, continuis, hyalinis.

Hab. in foliis languidis Veronicæ speciosæ cultæ in hortis prope la Recoleta Argentinæ et, teste Spegazzini, etiam in Europa.

343. Septoria Veronicæ Desm. Ann. Sc. nat. 1849, xi., p. 348. Phyl-2896 losticia Veronicæ Cooke F. B. n. 615. — Maculis amphigenis, parvis, subrotundis, fuscis vel griseis, dein albidis exaridis, ambitu umbrinis; peritheciis epiphyllis, globosis, prominentibus, pallidis demum fusco-nigrescentibus, poro apertis; sporulis elongatis, tenuissimis, rectis vel flexuosis, indistincte nucleolatis.

Hab. in foliis vivis vel languidis Veronicæ hederifoliæ in Gallia et Britannia.

344. Septoria Gratiolæ Sacc. et Speg. in Mich. I. p. 185. — Macu-2897 lis versiformibus, arescendo fulventibus, margine concolori; peritheciis epiphyllis punctiformibus, lenticularibus, prominulis, 80-100 μ. diam., pertusis; contextu parenchymatico-sinuoso, circa ostiolum densiore; sporulis bacillaribus, curvulis, 20-22 ≈ 1, obsolete guttulatis, hyalinis.

Hab. in foliis Gratiolæ officinalis, Conegliano Ital. bor. (Spegazzini).

345. **Septoria Scrophulariæ** Peck Rep. on the St. Mus. N. Y. — Ma- 2898 culis minutis, aridis, albidis, purpureo-brunneo-cinctis; peritheciis paucis, superficialibus; sporulis filiformibus, curvatis, hyalinis, 25-40 μ. longis.

Hab. in foliis vivis Scrophulariæ nodosæ, Buffalo, Albany Amer. bor.

346. Septoria Pentastemonis Ell. et Everh. in litt. ad me. — Peri-2899 theciis punctiformibus nigris epiphyllis in maculis parvis, albis, orbicularibus, tenuibus, zona purpurascente cinctis; sporulis cylindricis leniter curvatis vel nucleolatis, 14-20 = 1, indistincte nucleatis.

Hab. in foliis Pentastemonis Digitalis, Anna, Illinois Amer. bor. (F. S. EARLE).

347. Septoria Digitalis Passer. F. Parm. Sept. n. 94. — Peritheciis 2900 minutis sparsis in maculis fuscis irregularibus effusis, tandem are-

scentibus; sporulis filiformibus, continuis, plurinucieolatis, 25-30 ≈ 1.5 .

Hab. in foliis Digitalis luteæ, Collecchio, Parma Ital. bor. 348. Septoria Antirrhini Desm. XXI. Not. Pl. Crypt. p. 3. — Maculis 2901 flavidis; peritheciis amphigenis, minutissimis, 50-70 μ. diam., subprominulis, numerosis, gregariis vel sparsis, poro pertusis; cirris albis; sporulis cylindricis, utrinque obtusis, rectis vel arcuatis, 4-7-nucleatis (brevibus, continuis sec. Pass.), $15-20 \approx 2-2.5$.

Hab. in caulibus et foliis semiputridis Antirrhini majoris in Gallia, Lusitania, Italia.

349. Septoria Cymbalariæ Sacc. et Speg. in Mich. I. p. 190. — Ma- 2902 culis subcircularibus fuscescentibus; peritheciis, gregariis, punctiformibus, lenticularibus, late pertusis, contextu parenchymatico fuligineo solidiusculo; sporulis filiformibus subflexuosis, $20-35 \approx 2^1/2$ -3, utrinque obtusiusculis, pluriguttulatis, obsolete septulatis, hyalinis.

Hab. in foliis Linariæ Cymbalariæ, Conegliano Ital. bor. (Spegazzini), et pr. Alençon Galliæ (Gillet). — In forma gallica perithecia $50-60~\mu$. diam.; sporulæ $15-20\approx 1-2$.

350. Septoria Acanthi Thum. Contrib. Myc. Lus. I. p. 25. — Peri- 2903 theciis epiphyllis, sparsis, parvulis, globulosis in maculis albido-arescentibus, orbiculatis, dilaceratis, latissime brunneo-cinctis et concentrice zonatis; sporulis cylindraceis, simplicibus (an semper?), subcurvulis, utrinque subacutatis, hyalinis, $20 \approx 2$.

Hab. in foliis vivis Acanthi mollis in horto Santa Cruz Lusitaniæ.

351. Septoria Lycopersici Speg. F. Argent. Pug. IV. n. 289. — Ma. 2004 culis magnis sæpe totum folium occupantibus, sordide fusco-cinerescentibus, subindeterminatis; peritheciis sparsis sæpius hypophyllis, lenticulari-hemisphæricis, prominulis, atris, membranaceis, contextu parenchymatico, olivaceo; sporulis bacillari-cylindraceis v. bacillari-subclavulatis majusculis, 70-110 ≈ 3, 3-pluriseptatis, utrinque obtusiuscule attenuato-rotundatis, hyalinis.

Hab. in foliis languidis Solani Lycopersici in hortis, Boca del Riachuelo Argentinæ.

352. Septoria Dulcamaræ Desm. in Ann. Sc. natur. 1841, XV. pag. 2905 135. — Epiphylla; maculis parvis, suborbiculatis, brunneo-griseis, demum albidis exaridis, ambitu fuscis; peritheciis innatis, minutissimis, punctiformibus, nigris; cirris tenerrimis carneis; sporulis longis, linearibus rectis vel flexuosis, 3-4-septatis, 50-60 ≈ 1.7.

Hab. in foliis vivis Solani Dulcamaræ in Italia, Gallia, Lusitania, Belgio. — Sporulæ cl. Passerinio continuæ visæ, forte ex immaturitate.

353. Septoria Daturæ Speg. F. Arg. Pug. II. n. 116. — Maculis candidissimis, orbicularibus determinatis, magnitudine maxime ludentibus; peritheciis minutis, 80-90 μ . d., atris, poro latiusculo pertusis, tenui-membranaceis, contextu parenchymatico, olivaceo; sporulis filiformi-subclavulatis, rectis vel curvulis, continuis, $30-40 \approx 1-1\frac{1}{2}$, hyalinis.

Hab. in foliis vivis Daturæ Stramonii cerca de Barracas del Sur Argentinæ.

354. Septoria bonariensis Speg. F. Arg. Pug. I. p. 188. — Maculis 2907 orbicularibus, confluendo irregularibus, primo indeterminatis fuscescentibus dein perfecte determinatis, arido-candicantibus; peritheciis centralibus, subepidermicis, lenticulari-hemisphæricis, minutissimis, 80-90 μ. diam., atris, contextu tenue membranaceo, fusco-olivaceo, ostiolo parvulo ornatis; sporulis filiformibus utrinque obtusiusculis, 45-55 ≈ 1-1,5, continuis, hyalinis, granuloso-farctis.

Hab. in foliis vivis vel languidis Salpichroæ rhomboideæ in planitie pamparum, rarius, in Argentina.

355. Septoria Polemonii Thum. Pilzfl. Sibir. n. 630. — Peritheciis 2008 epiphyllis, numerosis, gregariis, conico-emersis, punctiformibus, atris in maculis magnis, arescentibus dilute ochraceis, irregularibus, postremo albicantibus; sporulis bacillari-cylindraceis, rectis vel minime curvulis, continuis vel obsolete uniseptatis, utrinque obtusis, achrois, 24-30 ≈ 2.

Hab. in foliis vivis Polemonii cærulei, Minusssinsk Sibiriæ asiaticæ (Martianoff).

356. Septoria Convolvuli Desm. in Ann. Sc. natur. 1842, XVII. pag. 2000 108. Sept. fuscella Berk. in Curr. Simpl. Sphær. n. 396. — Maculis orbicularibus, dein confluentibus irregularibusque, rufis vel brunneo-fuligineis, denique centro albidis; peritheciis innatis, minutis, epiphyllis, brunneolis, pertusis; sporulis acicularibus, curvatis, 5-6-nucleatis, 35-50 ≈ 1,5.

Hab. in foliis languidis Convolvuli arvensis et C. sepium in Italia, Belgio, Britannia, Rep. Argentina, Lusitania. — In forma Conv. arvensis observavi sporulas $35-50 \approx 1-1^{1}/_{2}$, aciculares minutissime 5-6-guttulatas v. septulatas hyalinas; in forma Calystegiæ sporulas $35-40 \approx 1-1^{1}/_{2}$, continuas, hyalinas, utrinque obtusiusculas. An differentiæ constantes?

357. Septoria Calystegiæ West. Exs. n. 642 (1851), Septoria sepium 2910 Desm. XXI. Not. (1853) p. 4. — Maculis parvis subrotundis, brunneis, leniter elevatis, stroma quoddam fere simulantibus; peritheciis 1-3, innatis, sæpius hypophyllis, pallidis, poro apertis; sporulis cylindraceis curvulis, 36-45 ± 4-5, utrinque rotundatis, 3-5-septatis, pluriguttulatis, hyalinis.

Hab. in foliis Convolvuli arvensis in Ital. bor., Lusitania, Belgio, Gallia. — Verisimillime huc quoque spectat Polystigma Calystegiae Kikx. quod est Polystigma pertusarioides Desm.

358. Septoria Pulmonariæ Sacc. Mich. I. p. 188. — Maculis subcirgularibus, atro-fuscis, quandoque concentrice subplicatis; peritheciis (spuriis?) punctiformibus, late pertusis, sparsis; sporulis cylindraceis, vehementer curvatis, 30-32 \(\approx\)2, utrinque obtusiusculis, pluriguttulatis, hyalinis.

Hab. in pag. superiore foliorum Pulmonariæ officinalis in silva Montello Ital. bor.

359. Septoria Globulariæ Sacc. Mich. I. p. 182. — Maculis arescendo 2912 griseo-albicantibus, subcircularibus, epiphyllis; peritheciis parcis, lenticularibus, 50-60 μ . diam., pertusis, dein subsuperficialibus; sporulis filiformibus, $20-24 \approx \sqrt[3]{4}-1$, rectis curvulisve, obsolete guttulatis, hyalinis.

Hab. in foliis Globulariæ vulgaris, Conegliano Ital. bor. (Spegazzini).

360. Septoria Verbenæ Rob. et Desm. 14 Not. 1847, p. 19. — Ma- 2913 culis suborbicularibus, determinatis, candidis, areola purpurascentiviolacea cinctis; peritheciis minutis 80-100 μ . diam., membranaceis, contextu dense parenchymatico, fuligineo; sporulis cylindraceis, rectis vel flexuosis, $40-50 \approx 1-1,5$, hyalinis, pluri-guttulatis.

Hab. in foliis Verbenæ officinalis in Gallia, Italia, Britannia, Helvetia, Amer. bor. et V. chamædryfoliæ in aridis prope el Banado San Josè de Flores in Rep. Argentina (Specazzini).

— Forma in Verb. chamædrifolia præbet sporulas majores 40-70 ≈ 2-2,5, indistincte pluriseptulatas.

361. Septoria Lavandulæ Desm. 21 Not. 4. p. 2. Schröt. Mader. Pilz. 2914 n. 19. — Maculis amphigenis, numerosis, albido-exaridis, rotundatis aut irregularibus, margine elevato purpureo cinctis; peritheciis sæpe epiphyllis, paucis, minutissimis, nigris, globosis, poro pertusis, prominulis, siccis cupulatis; sporulis linearibus, rectis vel curvulis, 25-35 ≈ 1-2.



Hab. in foliis languescentibus Lavandulæ veræ et Lav. Stæhcadis in Gallia, Britannia, Italia boreali, Madera insula.

362. Septoria Lamii Passer. in Thüm. Mycotheca univ. 1183. — Pe. 2915 ritheciis exiguis in maculis irregularibus fusco-exaridis, venis limitatis, sparsis; sporulis tenuissimis, flexuosis (continuis?) 40 μ . longis.

Hab. in foliis vivis præcipue floralibus rarius in caulibus Lamii purpurei, Parma Ital. bor.

363. **Septoria lamiicola** Sacc. Mich. I. p. 180 (S. Lamii), Sept. hete-2916 rochroa forma in Lamiis Desm. — Maculis vagis tandem albicantibus, rufo-marginatis; peritheciis punctiformibus, paucis, brunneis; sporulis filiformibus tortuosis, 50 ≈ 1, distincte 3-5-septatis, hyalinis.

Hab. in foliis Lamii Orvalæ et L. albi in Italia bor., Gallia, Britannia. — A S. heterochroa Desm. typica differt sporulis

duplo triplove longioribus atque distincte septatis.

364. Septoria heterochroa Desm. Ann. Sc. natur. 1847, VIII. p. 22 2917 (excl. forma in *Lamiis* et *Antirrhino*). — Maculis amphigenis, sparsis, minutis, suborbiculatis, griseo-brunneis dein albis evanidis, sæpe brunneo-cinctis; peritheciis paucis, epiphyllis rarius hypophyllis, exilibus, fulvis, brunneis, demum nigris, poro apertis, siccis concavis; sporulis linearibus, tenuissimis, rectis v. curvulis, 25 v. long.

Hab. in foliis Malvæ silvestris, Plantaginis lanceo-

latæ in Italia, Belgio, Britannia.

365. Septoria Lophanthi Wint. Hedwigia 1883, p. 71. — Maculis amphigenis, angulosis, fusco-atris, 1-3 mill. latis, sæpe confluentibus; peritheciis amphigenis, gregariis, immersis, subglobosis, 150-200 μ. diam., mox sporularum cirris velatis; sporulis filiformibus, flexuosis aut curvatis, utrinque acutiusculis vel uno apice rotundato, altero angustato auctore, hyalinis, non vel parce septatis, 35-55 ≈ 2-2,5, in cirros albos, longos demum diffluentibus et crustam albam formantibus.

Hab. in foliis vivis Lo₁ hanthi nepetoidis, Illinois Amer. bor. (Seymour).

366. Septoria Menthæ (Thum.) Oud. Mat. Fl. mycol. Nederland. p. 4. 2919 Depazea Menthæ Thum. F. Austr. n. 1275. — Maculis primitus nigrescentibus, mox pallentibus, denique cinereis vel achromis, polymorphis, 1-2 mill. diam., sparsis vel confluentibus, linea nigra limitatis; peritheciis nigris exiguis uno vel pluribus in centro maculæ cospitose congestis; ostiolis non observatis; sporulis acicularibus, hyalinis, continuis, 58 = 1,2.

Hab. in foliis subvivis Menthæ arvensis in Bohemia et Hollandia.

367. Septoria menthicola Sacc. et Let. in Mich. II. pag. 345. (Sept. 2920 Menthw). — Maculis minutis, subcircularibus, amphigenis, subcichraceis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis filiformibus, flexuosis, continuis, 30-40 = 1, hyalinis.

Hab. in foliis languidis Menthæ arvensis v. affinis, pr. Rouen Gallice (Letendre). — A Sept. Menthæ maculis haud marginatis sporulisque multo brevioribus differre videtur.

368. Septoria Melissæ Desm. 21 Not. 4, p. 3. — Amphigena; ma-2921 culis fusco-nigris, numerosis, limitatis, angulosis, irregularibus; peritheciis innato-prominulis, nigris, globosis, dein collabascendo concavis; nucleo cinereo; sporulis filiformibus, rectis vel curvulis continuis, $30 \approx 1.6$.

Hab. in foliis languescentibus Melissæ officinalis in Gallia et Italia.

369. Septoria Mellitidis Sacc. et Speg. in Mich. I. pag. 182. — Ma. 2922 culis vagis arescendo dealbatis, fuligineo-cinctis; peritheciis epiphyllis, punctiformibus, subprominulis, pertusis; sporulis cylindraceo-bacillaribus, rectiusculis, 20-30 = 2, distincte 3-septatis, hyalinis.

Hab. in foliis Mellitidis Melissophylli, Conegliano Ital. bor. (Spegazzini).

370. Septoria Galeopsidis West. Bull. Ac. roy. 6, II. serie t. XII. 2923 n. 7, Ascochyta Galeopsidis Lasch in Kl. Herb. Myc. n. 1058. — Maculis hypophyllis, subviridibus vel brunneis, irregularibus, angulosis, foliorum venulis circumscriptis; peritheciis brunneis, punctiformibus. sparsis; sporulis cylindricis, rectis vel flexuosis, $30-40 \approx 1-1.5$.

Ilab. in foliis Galeopsidis Tetrahit et grandifloræ in Belgio, Gallia, Italia et Germania.

371. Septoria Scutellariæ Thum. Pilzfl. Sibir. n. 630. et 631. — Pe- 2024 ritheciis epiphyllis, subgregariis, mediis, lenticulari-applanatis, ni-gro-fuscis in maculis arescendo-candidis, membranaceis, irregularibus, postremo cito elabentibus, latissime sordide fusco-marginatis; sporulis cylindraceis, curvatis vel subrectis, uni-biseptatis, utrinque obtusis, $40-46 \approx 2$.

Hab. in foliis vivis Scutellariæ galericulatæ, Sc. scordifoliæ, Patroschilowo et Minussinsk Sibiriæ asiat.

372. Septoria Stachydis Rob. et Desm. 14 Not. 1847, p. 19, De. 2925

pazea stachydicola Lasch. — Maculis amphigenis, subolivaceis, dein pallide brunneis, subexaridis, irregularibus, venulis cinctis, sparsis vel confluentibus; peritheciis epiphyllis, minutissimis, brunneo-nigris, poro apertis; sporulis bacillaribus, curvulis vel flexuosis, subcontinuis, hyalinis, $30-40 \approx 1.7-2$.

Hab. in foliis languescentibus Stachydis silvaticæ, St. palustris et St. annuæ in Belgio, Britannia, Gallia, Italia. — β. Stachydis arvensis Speg. F. Arg. Pug. IV. n. 293. — Maculis sparsis, orbicularibus minutis 1-2 mill. d., albo-arescentibus determinatis; peritheciis lenticularibus, minutis 80-90 μ. d., atris membranaceis, contextu parenchymatico, fusco-olivaceo; sporulis filiformibus rectis v. flexuosis, utrinque rotundatis, $20-25 \approx 1$, non v. 1-septatis, hyalinis. — In foliis Stachydis arvensis in Argentina, frequens (J. Hieronymus).

373. Septoria Dracocephali Thum. Pilzfl. Sibir. n. 446. — Perithe- 2926 ciis epi- raro etiam hypophyllis, minutissimis, dense gregariis, subglobosis, emersis, fuscis, in maculis plus minusve orbiculatis, exarido-albescentibus mediis, griseo-fusco-marginatis, solitariis; sporulis cylindrico-fusiformibus. utrinque angustato-acutatis, leniter arcuatis, triseptatis, 30 = 2-2,5, hyalinis.

Hab. in foliis vivis Dracocephali in pratis subalpinis alpium Sajanensium Sibiriæ asiaticæ.

374. Septoria Salviæ Passer. Funghi Parm. Sept. n. 98. — Perithe- 2927 ciis minimis, semper tectis, vix prominulis in maculis exiguis subdiscoideis, primo fuscis, tandem exaridis; sporulis filiformibus, tenuibus, rectis vel parce flexuosis, continuis, intus granulosis, 65-70 μ. longis.

Hab. in foliis Salviæ pratensis, Collecchio pr. Parma Italiæ borealis.

375. **Septoria Lycopi** Pass. Hedw. 1878, p. 60. Septoria palustris 2028 Sacc. Mich. II. p. 103, (1880). — Maculis vagis amphigenis, sordide fuscis; peritheciis sparsis, vix perspiciendis, lenticularibus poro pertusis; sporulis baci!laribus, curvis, 50 ≈ 2, spurie septulatis, hyalinis.

Hab. in foliis Lycopi europæi pr. Rouen Galliæ (Leten-DRE) et in agro parmensi (Passerini).

376. Septoria Scorodoniæ Pass. in litt. (ut var. Sept. Teucrii). Sacc. 2029 Miscell. Myc. n. 2243. — Maculis minutis subcircularibus, præcipue epiphyllis, denique folium perforantibus, rufo-ochraceis; peritheciis paucis punctiformi-lenticularibus, 80 µ. diam., perforatis; spo-

541

Sphærioideæ, Scolecosporæ, Septoria.

rulis bacillaribus, utrinque obtusiusculis, continuis, hyalinis, $28-36 \approx 1-1.3$, eguttulatis.

Hab. in foliis languidis Teucrii Scorodoniæ pr. Rouen

(LETENDRE), Taillebourg Char. inf. (BRUNAUD).

377. Septoria Teucrii Sacc. Mich. I. p. 184. — Maculis subcircula- 2930 ribus, parvis, arescendo candicantibus, fusco-marginatis; peritheciis epiphyllis, lenticularibus, punctiformibus, 90 μ . diam., pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, $35 \approx 2$, obsolete pluriguttulatis, hyalinis.

Hab. in foliis Teucrii Chamædryos, Conegliano Ital. bor.

(Spegazzini).

378. Septoria microsora Speg. Nov. Add. n. 161. Sacc. Mich. II. p. 2931 278. — Maculis cinnamomeis, sæpius totum folium occupantibus, arescentibus et tunc fragilibus; peritheciis hypophyllis hinc inde sparsis vel 3-5-gregariis, et sorum parvulum, punctiforme, atrum efficientibus, minutissimis, 40-50 μ. diam., ostiolo umbilicato late hiante, 10-15 μ. diam., donatis; contextu densiuscule parenchymatico, atro-fuligineo; sporulis acicularibus, utrinque acutiusculis, rectis vel curvulis, primo pluriguttulatis, dein pluriseptatis, hyalinis, 20 = 1.

. Hab. in foliis Gentianæ asclepiadeæ in pascuis alpinis

M. Civetta et Mojazza Ital. bor.

379. Septoria Gentianæ Thum. Pilzfl. Sibir. n. 118. — Peritheciis 2932 epiphyllis, dense gregariis, subconicis, minutis, in macula pallide fusca, irregulariter dispositis; sporulis fusiformibus, curvatis, utrinque acutatis, uniseptatis, 3-5-nucleatis, hyalinis, 28 = 3.

Hab. in foliis languidis Gentianæ adscendentis, G. ma-

cranthæ pr. Minussinsk Sibiriæ asiaticæ.

380. Septoria Villarsiæ Desm. in Act. Lill. 1842, III. p. 106. — Epi- 2933 phylla; maculis parvis, rufo-griseis, suborbiculatis, 3-5 mill. diam, sparsis vel confluentibus; peritheciis innatis, minutissimis, nigris, numerosis; cirris tenuissimis albidis; sporulis elongatis, linearibus, rectis vel subflexuosis, multiseptatis, 35-50 μ. longis.

Hab. in foliis vivis Villarsiæ (Limnanthemi) nymphoidis

in Gallia, Italia, Germania.

381. Septoria Limnanthemi Thüm. F. Kirghis. n. XIII. — Perithe- 2934 ciis epiphyllis, dense gregariis, semiimmersis, punctiformibus, minutis, globosis, atris in maculis plus minusve orbiculatis, fuscogriseis, ochraceo-fusco late cinctis, subtus sordidis; sporulis bacillaribus, plerumque paullo arcuatis, utrinque subobtusatis, non vel obsolete uniseptatis, achrois, $30-45 \approx 2-2.5$.

Hab. in foliis vivis Limnanthemi nymphoidis Kybschewa (Orenburg) Rossiæ. — An diversa a Sept. Villarsice?

382. Septoria Vincetoxici (Schub.) Auersw. in Rabenh. F. Eur. De-2935 pazea Vincetoxici Schub. in Fic. Dresd. II. p. 352. Sphæria Vincetoxici Fr. Elench. II. p. 111. — Maculis epiphyllis vagis arescendo candicantibus, fusco-marginatis; peritheciis punctiformibus, fuscis, pertusis; sporulis filiformibus, tortuosis, 30-50 \(\times 1-1\frac{1}{2}\), continuis, hyalinis.

Hab. in foliis languidis Cynanchi Vincetoxici in Germania, Italia, Belgio.

383. Septoria Hoyæ Sacc. Mich. I. p. 172. — Maculis forma variis, 2936 arescendo eburneis, fusco-cinctis; peritheciis lenticularibus, pertusis, diam. $60-70~\mu$. d., contextu parenchymatico, fuligineo; sporulis cylindraceis v. clavulatis, $20-25 \approx 1-1^3/4$, continuis v. obsolete septatis, hyalinis.

Hab. in foliis Hoyæ carnosæ in hortis Padova Ital. bor.

384. Septoria asclepiadea Sacc. Mich. I. p. 196. — Maculis nullis v. 2937 obsoletis; peritheciis amphigenis dense gregariis, globoso-lenticularibus, prominulis, punctiformibus, atris; sporulis bacillari-fusoideis, $18-20 \approx 2^1/2-3$, curvulis, utrinque obtuse attenuatis, obsolete 1-septatis, non constrictis, hyalinis.

Hab. in foliis Cynanchi Vincetoxici et Marsdeniæ erectæ in horto patavino Ital. bor. et pr. Rouen Galliæ. — A Sept. Vincetoxici toto cœlo diversa.

385. Septoria littorea Sacc. Mich. II. p. 280. — Maculis subcircula- $_{2938}$ ribus, minutis, ochraceis, late rufescenti-marginatis; peritheciis punctiformibus, lenticularibus; sporulis bacillaribus, curvulis, $_{50-60} \approx 2-2\frac{1}{4}$, utrinque obtusiusculis, pluriguttulatis, hyalinis.

Hab. in foliis nondum emortuis Apocyni Veneti in insula Lido di Venezia Ital. bor. (O. Penzia).

386. Septoria Araujæ Speg. F. Argent. Pug. III. n. 112. — Maculis 2939 nullis v. hypophyllis vix pallescentibus; peritheciis hypophyllis, laxe gregariis, globosis, subepidermicis prominulis, atris, minutis 70-80 μ. diam., tenui-membranaceis, contextu densiusculo; parenchymatico, fuligineo; sporulis bacillaribus, utrinque rotundatis, continuis, granuloso-farctis 30-40 ≈ 3, hyalinis, ex ostiolo cirratim protrusis.

Hab. ad folia languida v. dejecta Araujæ albentis in sepibus prope San José de Flores Argentinæ.

387. Septoria purpureola Speg. F. Argent. Pug. IV. n. 292. - Ma- 2940

culis magnitudine ludentibus 1-5 mill. diam., suborbicularibus, candidis, determinatis, epiphyllis, areola magna, atro-purpurea cinctis; peritheciis paucis centralibus, minutissimis 70-80 μ . d., lenticularibus, tenuissime membranaceis, contextu parenchymatico, pallide purpurascente v. fuligineo-vinoso, ostiolo minuto impresso pertusis; sporulis, cylindraceo-bacillaribus, rectis v. flexuosis, utrinque obtusiusculis, $20-25 \approx 1.5$, medio non v. l-septatis, non constrictis, hyalinis.

Hab. in foliis vivis Araujæ albentis in dumetis uliginosis,

Parque de Palermo et Boca del Riachuelo Argentinæ.

388. Septoria Cruciatæ Rob. et Desm. 14 Not. 1847, p. 20. — Ma- 2941 culis amphigenis, paucis, ovalibus vel irregularibus, fulvis, brunneo-cinctis, in ambitu luteolis; peritheciis epiphyllis prominulis, fusco-nigrescentibus, poro apertis; cirris ochroleucis; sporulis elongatis, tenuissimis curvatis, 40-50 μ. longis.

Hab. in foliis languescentibus Galiorum in Gallia, in foliis

Galii borealis in Rhenogovia.

389. Septoria Galiorum Ellis Bull. Torrey botan. Club 1882, p. 74. 2942 — Peritheciis punctiformibus, minutis, sparsis, nigro-prominulis; sporulis aciculari-filiformibus, leniter curvatis 20-25 μ. longis, subtiliter septatis.

Hab. in caulibus emortuis Galiorum in America boreali.

390. Septoria psilostega Ell. et Mart. Amer. Nat. 1882, p. 1001. — 2943 Maculis aureo-luteis, marginalibus; peritheciis hypophyllis, sparsis, luteis, delicatis; sporulis filiformibus, rectis vel curvatis, leviter triseptatis, 60 = 3, mox in cirros varios succineos exeuntibus.

Hab. in foliis Galii pilosi in America boreali.

391. Septoria urens Pass. Hedwigia 1881, p. 146, et F. Parm. Sept. 2944 n. 66. — Peritheciis punctiformibus, sparsis, vix nisi luce transversa perspicuis; sporulis tenuibus longis, continuis, rectis, hyalinis.

Hab. in foliis Galii tricornis, Vigheffio prope Parmam Ital. bor. — Folia fungillo correpta ab apice ad basim mox exarescunt.

392. Septoria Adoxæ Fuck. Symb. Myc. App. II. p. 21. — Peritheciis sparsis subgregariisque, quandoque in maculis exaridis, demum liberis, aterrimis, obtuse conicis, basi applanata adnatis, minutis; ostiolo obtuso, perforato; sporulis cylindraceis, plerumque rectis, 2-3-locularibus, hyalinis 32-36 = 4.

Hab. in foliis Adoxæ Moschatellinæ in Rhenogovia.

393. Septoria Ebuli Desm. et Rob. 7 Not. 1850, p. 22. — Maculis 2946

amphigenis, minutis, subrotundatis, pallide rufis vel purpureis, sparsis, interdum confluentibus, sæpe brunneo-cinctis; peritheciis epiphyllis, convexis dein depressis, griseis demum fusco-nigricantibus, poro apertis; sporulis filiformibus, lenissime curvulis, $30-40 \approx l-1.5$, obsolete guttulatis, hyalinis.

Hab. in foliis Sambuci Ebuli in Italia, Gallia, Belgio.

394. Septoria Campanulæ (Lev.) Sacc, Ascospora Campanulæ Lev. 2947. Ann. Sc. nat. 1846, p. 277. — Peritheciis hypophyllis gregariis, innatis, rugulosis, prominulis, demum depressis, macula pallida insidentibus, ostiolis obsoletis; sporulis cylindricis continuis linearibus, utrinque obtusis.

Hab. in foliis Campanularum, Ghilan Persiæ.

395. Septoria Prismatocarpi Desm. Ann. Sc. nat. 1853, pag. 89. — 2948 Peritheciis minutis, atris, in maculis subcircularibus, albo-exaridis, fusco-marginatis, circinatis vel sparsis; sporulis rectis, integris, hyalinis, 30-40 ≈ 1,5.

Hab. in foliis languidis Speculariæ Speculi et Sp. hybridæ in Italia bor. et Gallia. — Sec. Desm. l. c. perithecia sunt amphigena prominula pertusa, in maculis fulvescentibus, non limitatis.

396. Septoria specularina B. et C. North Americ. Fungi n. 439 2949 (Sept. Specularice). — Peritheciis minutis sparsis in tota planta moribunda insidentibus; sporulis linearibus leviter curvatis, 25 μ. longis.

Hab. in Speculariæ Ludovicianæ moribundæ variis partibus in Carolina inf. Amer. bor.

397. Septoria Speculariæ B. et C. North Americ. fungi n. 437. — 2050 Maculis pallidis obsoletisve; peritheciis prominulis sparsis; sporulis filiformibus sigmatoideis.

Hab. in foliis Speculariæ perfoliatæ in Pensylvania (MICHENER).

398. Septoria Phyteumatis Siegm. in Rabh. F. E. n. 1350 (non vidi). 2951 Sacc. Mich. I. p. 184. — Maculis versiformibus, arescendo expallentibus, fusco-marginatis; peritheciis sparsis punctiformibus; sporulis filiformibus, rectiusculis v. flexuosis, $15-20 \approx \frac{3}{4}$, continuis hyalinis.

Hab. in foliis Phyteumatum, Cadore Ital. bor. (S. Venzo). 399. Septoria Phyteumatum Sacc. Mich. I. p. 127. — Maculis inde- 2952 terminatis expallentibus; peritheciis dense gregariis, initio epidermide velatis e globoso lenticularibus, 80-100 p. diam., poro per-

Sphærioideæ, Scolecosporæ, Septoria.

545

tusis, contextu parenchymatico solidiusculo fuligineo; sporulis filiformibus rectis curvulisve, $40-45 \approx 1$, vix guttulatis, continuis, hyalinis.

Hab. in foliis Phyteumatum prope Vindobonam Austriæ

(MARENZELLER in herb. P. Magnus).

400. Septoria Adenophoræ Thüm. Pilzfl. Sibir. n. 449. — Peritheciis 2953 epiphyllis, gregariis, conicis, atris, subprominulis in maculis griseo-exaridis, parvis, fusco-violaceo late cinctis; sporulis cylindraceo-fusiformibus, subarcuatulis, utrinque acutatis, tri-quadriseptatis, hyalinis, 42-48 ≈ 4.

Hab. in foliis vivis Adenophoræ tricuspidatæ in pratis

subalpinis alpium Sajanensium Sibiríæ asiat.

401. Septoria Fuckelii Sacc. Mich. I. p. 190. Sept. Tussilaginis Fuck. 2954
Symb. myc. App. II. p. 83, non West. nec Thum. Fungi Austr. n.
1187. — Maculis fuligineis, epiphyllis inæqualiter sanguineo-marginatis; peritheciis globoso-lenticularibus, majusculis, pertusis; sporulis cylindraceo-clavulatis utrinque obtusis, 40-55 ≈ 6-7, curvulis, 4-5-septatis, leniter constrictis, obsolete guttulatis, chlorino-hyalinis.

Hab. in pagina superiore foliorum Tussilaginis Farfaræ

in agris Treviso et Parma Ital. bor. et Rhenogovia.

402. Septoria Farfaræ Passer. F. Parm. Sept. n. 70. — Maculis di- 2955 scoideis griseis tandem exaridis, linea fusca elevata limitatis et areola atro-purpurea irregulari circumdatis, subtus minus perspicuis ibique Æcidii vestigia exhibentibus; peritheciis minutis semi-immersis numerosis subcircinatim in maculas stipatis vel sparsis; sporulis elongato-fusiformibus, apicibus acuminatis, rectis vel leniter arcuatis, pluriseptulatis, loculis nucleolati, 55 ≈ 3.

Hab. in foliis Tussilaginis Farfaræ, Parma Italiæ bor.

403. Septoria Tussilaginis West. Exs. n. 640. Kickx Fl. cr. Fl. I. 2956 p. 430. — Maculis irregularibus brunneis, dein olivaceis, demum arescendo albidis, linea nigricante elevata limitatis et circum circa purpureo-maculatis; peritheciis epiphyllis, paucis, minutis, nigricantibus, nitidulis; sporulis cylindricis obtusis, rectis vel flexuosis, 8-12-guttulatis, hyalinis.

Hab. in foliis Tussilaginis Farfaræ, T. fragrantis in

Germania, Italia et Belgio.

404. Septoria Mulgedii Thüm. Pilzfl. Sibir. n. 637. — Peritheciis epi- 2957 phyllis, sparsis, mediis, subhemisphærico-lentiformibus, fuscis, se-

miimmersis in maculis magnis, irregularibus, arescendo-griseis, late fusco-griseo marginatis; sporulis cylindraceis, utrinque acutiusculis, arcuatis, uniseptatis, achrois, $26-28 \approx 4$.

Hab. in foliis vivis Mulgedii sibirici pr. Minussinsk Sibiriæ asiaticæ.

405. Septoria Tanaceti Niessl Mahr. Kryptogamenflora II. p. 36. — 2958 Epiphylla; maculis indeterminatis, irregularibus sæpe confluentibus, fuscis; peritheciis minutissimis, innato-prominulis, apice conicis, atro-fuscis; cirris carneis; sporulis elongato-fusiformibus, rectis vel flexuosis, obtusis, 5-7-guttulatis.

Hac. in foliis languentibus Tanaceti vulgaris prope Gr. Niemtschitz Moraviæ.

406. Septoria Eupatorii Rob. et Desm. 21 Not. p. 6. — Maculis am- 2959 phigenis, parvis, numerosis, albido-exaridis, suborbiculatis, sæpe brunneo- vel purpureo-cinctis; peritheciis pallidis, minutissimis; cirris albis; sporulis filiformibus, parum curvatis, obsolete guttulatis, hyalinis, 25-35 ≈ 1,5.

Hab. in foliis languidis Eupatorii cannabini in Gallia et Italia.

407. Septoria Virgaureæ Desm. Ann. Sc. nat. 1842, XVII. p. 109. 2960 Ascochyta Virgaureæ Lib. Exs. n. 55. — Epiphylla; maculis orbiculatis vel irregularibus, exaridis, albido brunneoque variegatis; peritheciis innatis, minutis, convexis, subnigris, ore orbiculari late apertis; cirris albis; sporulis filiformibus, curvulis, utrinque obtusiusculis, 80 ≈ 1,5, obsolete guttulatis, continuis, hyalinis.

Hab. in foliis languidis Solidaginis Virgaureæ in Italia, Gallia, Britannia, Germania, Fennia.

408. Septoria Solidaginis Thum. Fung. Am. trig. Sp. n. 13. — Pe- ²⁹⁶¹ ritheciis hypophyllis, subgregariis vel solitariis, interdum etiam confluentibus, conico-globosis, prominentibus, elevatis, atris in macula minima, indeterminata, subpallida, in pagina superiore maculas, parvas, griseas, late purpureo-cinctas formantibus; sporulis fusiformibus, utrinque subacutatis, rectis, numerosis, medio uniseptatis, ad septa non constrictis, binucleatis, hyalinis, 15 ≈ 4.

Hab. in foliis vivis Solidaginis puberulæ, socia Coleosporii Solidaginis Thum., Aiken in Carolina austr.

409. Septoria Pingræ Speg. F. Argent. Pug. IV. n. 291. — Maculis 2962 amphigenis, elongato-suborbicularibus, determinatis, fusco- v. cinereo-albicantibus; peritheciis epiphyllis, centralibus lenticularibus, 80-90 a.d., tenui-membranaceis, contextu parenchymatico, fuligineo;

ostiolo impresso pertusis; sporulis cylindraceis, rectis v. flexuosis, utrinque obtusiusculis, $45-55 \approx 1.5$, pluriseptatis, hyalinis.

Hab. ad folia viva Baccharidis pingreæ, San José de

Flores Argentinæ.

410. Septoria erigerontea Peck 24 Rep. of the Bot. 1873, pag. 87 2963 (sub S. Erigeronis). — Maculis minutis, orbicularibus, distinctis, rarissime confluentibus, aridis, brunneo- vel nigro-marginatis; peritheciis minutis, nigris, superficialibus; sporulis filiformibus, simplicibus, 25 µ. longis.

Hab. in foliis Erigerontis annui, Greenbush in Amer. bor.

411. Septoria Erigerontis B. et C. North Amer. Fungi n. 437 bis. — 2964 Maculis rufulis margine elevato concolori; sporulis rectis, filiformibus, 38 μ. longis.

Hab. in foliis Erigerontis, Massachusset Amer. bor.

412. Septoria Inulæ Sacc. et Spegazz. Mich. I. p. 190. — Maculis 2665 variis arescendo brunneo-rufescentibus; peritheciis centralibus punctiformibus, 100-120 µ. diam., lenticularibus pertusis, laxiuscule fuligineo-contextis; sporulis bacillaribus, 30-50 ≈ 3-4, subflexuosis, utrinque rotundatis, obsolete 1-septatis, hyalinis.

Hab. in foliis Inulæ salicinæ, Conegliano Italiæ borealis (Spe-

GAZZINI).

113. Septoria Nahali B. et C. North Americ. Fungi n. 438 bis. — Ma-2966 culis rufis, margine lato, plano, brunneo cinctis; sporulis tenuissimis, flexuosis, 32 a. longis.

Hab. in foliis Nabali, New Hampshire Amer. bor.

414. Septoria Wyethiæ Harkn. F. Calif. p. 11. — Peritheciis am-2967 phigenis, majorem folii partem occupantibus; sporulis linearibus, obscure septatis continuisve, 56 ≈ 6-8.

Hab. in foliis viventibus Wyethiæ mollis, Sierra Nevada Californiæ.

415. Septoria Saussureæ Thum. Pilzfl. Sibir. n. 633. — Peritheciis 2968 epiphyllis, dense gregariis, minutis, punctiformibus, emersis, nigris in maculis orbicularibus, arescendo griseolis, anguste fusco-marginatis; sporulis cylindricis, rectis vel leniter arcuatis, utrinque subobtusis, continuis sed obsolete nucleolatis, 30-40 = 4, hyalinis.

Hab. in foliis vivis Saussureæ glomeratæ in subsalsis pr.

Minussinsk Sibiriæ asiaticæ.

416. Septoria Bidentis Sacc. Fungi Veneti V. p. 205. M. V. n. 311. 2969 — Maculis pallidis, rubro-cinctis, exaridis, vagis; peritheciis ge-

neris, paucis; sporulis vermicularibus, $30-35 \approx 1-1^{1}/_{2}$, indistincte septulatis, hyalinis.

Hab. in foliis languentibus Bidentis tripartitæ pr. Treviso et Parma Ital. bor..— An huc spectet Depazea Bidentis Lasch in Kl. Herb. M. n. 871, ignoro.

417. Septoria Artemisiæ Pass. F. Parm. Sept. n. 73. — Peritheciis 2970 parenchymati immersis, in maculis epiphyllis discoideis, fuscis tandem exaridis; sporulis filiformibus continuis, curvis, hyalinis $30-33 \approx 1^{1}/_{2}$.

Hab. in foliis Artemisiæ vulgaris pr. Parma Ital. bor.

418. Septoria Arnicæ Fuck. Symb. Myc. App. II. p. 36 (sub Asco-2971 chyta e. p.). — Epiphylla; maculis fuscis; peritheciis depressis, atris, minutis; sporulis filiformibus, longissimis.

Hab. in foliis Arnicæ montanæ, St. Moritz Helvetiæ, socia Phyllosticta Arnicæ Fuck.

419. **Septoria Doronici** Passer. F. Parm. Sept. n. 75. — Peritheciis 2072 punctiformibus, dense sparsis, epiphyllis, in maculis fuscis effusis confluentibus; sporulis tenuibus, rectis integris, hyalinis, 18-20 μ. longis.

Hab. in foliis Doronici Pardalianches, Collecchio pr. Parma Ital. bor.

420. **Septoria Ptarmicæ** Passer. F. Parm. Sept. n. 77. — Perithe- 2973 ciis punctiformibus fuscis in dentibus folii aridis sparsis; sporulis filiformibus, rectis, tenuissimis, brevibus, continuis, hyalinis, $20-25 \approx 0.7-1$.

Hab. in foliis vivis v. subaridis Achilleæ Ptarmicæ, Parma Ital. bor.

421. Septoria sordidula (Lév.) Sacc. Ascospora sordidula Lév. Ann. 2974 Sc. nat. 1846, p. 277. — Peritheciis epiphyllis, innatis, erumpentibus confertis maculam atram suborbicularem sistentibus; ostiolis depressis albicantibus; sporulis albicantibus continuis, linearibus, utrinque obtusis.

Hab. in foliis Aplotaxeos in India orientali.

422. Septoria Bellidis Desm. et Rob. 21 Not. 1853, p. 6. — Macu- 2975 lis olivaceis, dein fulvo-subterreis, subaridis, irregularibus; peritheciis amphigenis, minutissimis, 50 μ. diam., gregariis v. sparsis, fusco-nigrescentibus, poro pertusis; sporulis elongatis, subrectis indistincte nucleatis, 35 μ. longis.

Hab. in foliis languescentibus Bellidis in Gallia.

423. Septoria bellidicola Desm. et Rob. Not. XXI. p. 7. Sacc. Mich. 2976

Sphærioideæ, Scolecosporæ, Septoria.

549

I. p. 182. — Maculis albis rufo-marginatis; peritheciis epiphyllis, sparsis, nigris, prominulis, demum depressis umbilicatis, poro pertusis; sporulis filiformibus obsolete septulatis, $80-100 \approx 2-2^{1}/_{2}$, hyalinis.

Hab. in pagina superiore foliorum Bellidis perennis, Co-

negliano Ital. bor. (Spegazzini) et in Gallia (Rob.).

424. **Septoria socia** Passer. F. Parm. Sept. n. 74. — Peritheciis in 2977 maculis fuscis subrotundis vel irregularibus subaggregatis, punctiformibus. epiphyllis; sporulis tenuibus, breviusculis, continuis, obsoletissime nucleolatis, plerumque rectis, 25-30 μ. longis.

Hab. in foliis languidis Leucanthemi vulgaris, Collecchio

Parma Italiæ bor.

425. Septoria Leucanthemi Sacc. et Speg. in Mich. I. p. 191. — 2978 Maculis subcircularibus sinuosisque, fuscescenti-ochraceis, denique areola centrali alba; peritheciis sparsis, punctiformibus, lenticularibus 200-300 μ. diam., latiuscule pertusis, contextu laxiuscule parenchymatico pallide fuligineo; sporulis filiformibus, curvulis flexuosisve, 100-130 ≈ 4-5, crassiuscule pluriguttulatis, obsolete septatis, hyalinis.

Hab. in foliis Leucanthemi vulgaris, Conegliano Ital. bor.

(Spegazzini), Coimbra Lusitaniæ (Moller).

426. Septoria anaxæa Sacc. Mich. I. p. 189. — Maculis vagis epi- 2979 phyllis ex ochraceo fuligineis, quandoque flavo-cinctis; peritheciis punctiformibus globoso-lenticularibus, 80-90 μ . diam., pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, $50-70 \approx 3^{1}/_{2}$, minute pluriguttulatis v. obsolete septatis, hyalinis.

Hab. in pag. sup. foliorum Senecionis præalti in silva

Montello ad flumen Piave (Anaxum) Ital. bor.

427. Septoria Senecionis West. Bull. Ac. roy. belg. t. XIX. n. 9. — 2980 Maculis epiphyllis, rotundatis vel irregularibus griseo-nigris, centro albicantibus; peritheciis immersis, nigris; ostiolo poriformi; sporulis cylindricis, rectis vel flexuosis, utrinque attenuatis, $40 \approx 1.5$, obsolete 3-4-septatis, hyalinis.

Hab. in foliis Senecionis sarracenici, S. nemorensis, S. campestris, in Belgio, Italia, Germania et Sibiria asiatica.

428. Septoria atro-purpurea Peck. 33. Rep. St. Mus. 25. — Maculis 2981 suborbicularibus, non vel confluentibus, sæpe purpureo-brunneis, ad centrum areola minuta pallida, arescente instructis, infra pallide purpureis, centro ochraceo-brunneolo; peritheciis paucis; cirris albis; sporulis filiformibus, rectis vel flexuosis, 50-75 p. longis.

Hab. in foliis vivis Asteris macrophylli, Jamesville Americæ borealis.

429. Septoria Galinsogæ Speg. F. Arg. Pug. IV. n. 287. — Maculis 2982 subdeterminatis, majusculis, sæpe totum folium occupantibus, fuscescentibus, centro pallescentibus v. albicantibus, perithecigeris; peritheciis epiphyllis densiuscule gregariis innato-prominulis atris, lenticularibus 80-90 μ. diam., tenuissime membranaceis, contextu parenchymatico, olivaceo, ostiolo latiusculo 20-25 μ. diam., pertusis; sporulis filiformibus, rectiusculis, subindistincte pluriseptulatis, 40-60 ≈ 1, hyalinis.

Hab. in foliis languidis Galinsogæ parvifloræ in hortis, Boca del Riachuelo Argentinæ.

. 430. Septoria Cardunculi Pass. in Myc. univ. n. 594, Flora 1877, n. 13. 2983 — Peritheciis punctiformibus in maculis exaridis, sparsis, membranaceis, cellulis parvis, irregularibus, fuscis contextis; sporulis filiformibus, arcuatis, creberrimis, hyalinis, 50 ≈ 1.7.

Hab. ad folia languida Cynaræ Cardunculi, Vigheffio pr. Parma Ital. bor. (Passerini).

431. Septoria Scolymi Passer. Hedw. 1881. p. 146. — Peritheciis 2984 per folium exaridum sparsis, punctiformibus, atris, utrinque, sed præsertim subtus prominulis; sporulis tenuibus rectis, integris, obscure nucleolatis 30-40 p. longis.

Hab. in foliis languidis Scolymi hispanici, Vigheffio pr. Parma Italiæ bor.

432. Septoria Silyhi Passer. F. Parm. Sept. n. 79. — Maculis sub- 2985 orbicularibus, griseo-fuscis, nitidis; peritheciis in maculis sparsis, parenchymati immersis, utrinque punctiformi-protuberantibus, nigris, subtus ostiolo acuto erumpentibus; sporulis filiformibus, rectis vel flexuosis continuis, 65-70 u. longis.

Hab. in foliis languidis Silybi Mariani, in hortis Parma Ital. bor. — Septoriae Cirsii affinis.

433. Septoria Cirsii Niessl Mahr. Cryptogamenflora II. p. 36, Sacc. 2986 Mich. II. p. 188, Pass. F. Parm. Sept. n. 76. — Epiphylla; maculis magnis, aridis, brunneo-pallescentibus, sæpe subcircularibus indeterminatis vel linea brunnea cinctis, nitidulis; peritheciis gregariis, innato-prominulis, minutis, hemisphæricis, papillatis; sporulis cylindricis, subflexuosis, utrinque obtusis, fere truncatis, 8-12-septatis, 40-80 \approx 1,5-2.

Hab. in foliis emarcescentibus Cirsii arvensis pr. RossitzMoraviæ, Parma et Treviso Italiæ. — Sporularum longitudo ad-

modum varia, a 40 ad 100 μ. diam. et ultra. In maculis griseo-fuscis occurrunt quoque maculæ discoideæ, minutæ, exaridæ, candidæ, perithecia subsolitaria, sporulis longioribus fæta, foventes. Pass. l. c.

434. Septoria? Serratulæ (Wallr.) Sacc. Helicobolus Serratulæ 2987 Wallr. Fl. Crypt. n. 3645. — Peritheciis membranaceis nigris synphlæodeis, primum conicis clausis, dein vertice truncato aperto emergentibus stillaque sporularum pallida coronatis.

Hab. in foliis languidis Serratulæ (Cirsii) arvensis passim in Germania.

435. Septoria Lapparum Sacc. Mich. I. p. 184. — Maculis epiphyl- 2988 lis e circulari angulosis, minutis, initio fuligineis, tandem candicantibus; peritheciis sparsis, lenticularibus, 80-100 μ . diam., punctiformibus, pertusis; sporulis bacillaribus, curvatis, $25 \approx 1-1^1/4$, continuis, hyalinis.

Hab. in foliis Lappæ minoris, Selva Ital. bor.

436. Septoria Centaureæ (Roum.) Sacc. Phyllosticta Centaureæ 2980 Roum. F. Gall. n. 1633. — Maculis minutis, variis, amphigenis, olivaceis dein pallentibus, vix marginatis; peritheciis punctiformibus; sporulis bacillaribus, curvulis, 2-4-septulatis, non constrictis, hyalinis, 55-60 ≥ 1.5-2, utrinque obtusiusculis.

Hab. in foliis languidis Centaureæ nigræ, Toulouse Galliæ.

437. Septoria Intybi Passer. F. Parm. Sept. n. 81. — Peritheciis mi- 2990

nutissimis, sparsis, tectis, atris; sporulis tenuibus integris, obscure nucleolatis, 25-30 u. longis.

Hab. in ramulis siccis Cichorii Intybi, Vighetfio pr. Parma Italiae bor.

438. Septoria Endiviæ Thum. Contr. Funghi Litor. n. 345. — Pe-2991 ritheciis hypophyllis, gregariis, minutis, punctiformibus, obscure fuscis, globulosis, sine macula sed in folii parte arida decolorata, sordide fuscidula; sporulis bacillaribus vel filiformibus, rectis vel curvatis, utrinque obtusatis, continuis vel obscure uniseptatis, hyalinis, 24-30 = 2.

Hab. in foliis languidis Cichorii Endiviæ, Rubbia prope Gorizia.

439. Septoria Lactucæ Pass. Atti Soc. Crittog. Ital. vol. II. pag. 35 2092 (1879). — Maculis ferrugineis, irregularibus, angulosis, totam folii laminam mox adurentibus; peritheciis minimis, punctiformibus sparsis, 90 μ . diam.; sporulis filiformibus, integris rectis vel curvulis, hyalinis, $25-30 \approx 1.7-2$.

Hab. in foliis vivis languidisve Lactucæ sativæ, Parma, Belluno in Italia, Saintes in Gallia. — Non videtur diversa Septoria Lactucæ Peck Bot. Gaz. Jun. 1879, pag. 170. Maculis indefinitis, pallidis vel brunneis; peritheciis minutis, sparsis, nigris; sporulis plus minusve curvatis, 20-38 μ. longis. — In foliis vivis Lactucæ sativæ, Illinois Amer. bor.

440. Septoria lactucicola Ell. et Mart. Amer. Nat. 1882, p. 1002. 2993 — Peritheciis punctiformibus, minutis, sparsis, brunneis, in maculis concentrice rugosis, 12-30 mill. diam.; sporulis filiformibus, sæpe curvatis, 25-30 u. longis.

Hab. in foliis vivis Lactucæ canadensis, Newfield N. J. America borealis.

441. **Septoria Ætheorrhizæ** Thum. Contr. Myc. Lusit. n. 610. — Pe-2994 ritheciis amphigenis, numerosis, parvis, dense gregariis, punctiformibus, globulosis, immersis, atris in maculis irregularibus arescendo ochraceo-fuscis, indeterminatis; sporulis bacillaribus, subrectis vel leniter arcuatis, utrinque obtusis, obsolete uniseptatis, hyalinis, 24-26 ≈ 1,5-2.

Hab. ad folia viva Ætheorrhizæ bulbosæ, St. Clara pr. Coimbra Lusitaniæ (Moller).

442. Septoria sonchifolia Cooke Rav. Fung. Amer. n. 31. Hedw. 1878, 2995 pag. 38. — Maculis orbicularibus vel elongatis, brunneis; sporulis linearibus, rectis vel curvulis, hyalinis, 20 μ. longis.

Hab. in foliis Sonchi asperi in Carolina austr. Amer. bor. (RAVENEL).

443. Septoria sonchina Thum. Pilzfl. Sibir. n. 634. — Peritheciis epi-2996 phyllis, sparsis vel subsolitariis, magnis, semiimmersis, punctiformi-sublenticularibus, atro-fuscis, hemisphæricis in maculis irregulari-orbicularibus, arescendo ochraceis, magnis, epiphyllis, fusco-violaceis, marginatis; sporulis cylindraceo-bacillaribus, arcuatulis, utrinque acutiusculis, obsolete tri-quadriseptatis, numerosis, achrois, 28-34 ≈ 1,5-2.

Hab. in foliis vivis Sonchi oleracei, Minussinsk Sibiriæ.
A Septoria Sonchi Sacc. maculis et sporulis toto cœlo diversa.

444. Septoria Sonchi Sacc. Mich. I. p. 183. — Maculis oblongis vi- 2997 ridi-griseis, obsoletis, cladogenis, rarius hypo- et epiphyllis; peritheciis remotiuscule gregariis, lenticularibus, innato-prominulis, 110 μ . diam., late pertusis; contextu laxiuscule cellulari, subochraceo; sporulis cylindraceo-bacillaribus, sæpe flexuosis, utrinque obtusiusculis, $20-24 \approx 1^{1}/_{2}-2$, minute pluriguttulatis, hyalinis.

Sphærioideæ, Scolecosporæ, Septoria.

Hab. in foliis caulibusque nondum emortuis Sonchi oleracei, Conegliano Ital. bor. (Spegazzini). - A Septoria nebulosa var. minore Desm. XXI. Not. p. 6 differt præcipue peritheciis majoribus, remotioribus, melleis nec nigris.

445. Septoria Mougeoti Sacc. et Roum. Reliq. Libert. IV. n. 151. — 2998 Maculis amplis flavicantibus centro subolivaceis; peritheciis punctiformi-lenticularibus 80 u. diam.; sporulis filiformibus, 35-40 = 1. hyalinis, eguttatis, continuis.

Hab. in foliis Hieraciorum, Malmedy in Arduennis.

446. Septoria scabiosicola Desm. in Ann. Sc. nat. 1853, XX. p. 96. 2999 Sphæria lichenoides vel scabiosicola DC. Ascochyta Scabiosæ Rabenh. - Maculis orbicularibus fusco-purpureis, pallido-cinctis, dein centro albidis, scariosis; peritheciis epiphyllis, minutis, nigris, paucis (1-3); sporulis filiformibus, rectiusculis, $40-50 \approx 0.7-11/2$ parce et obsolete septatis v. 5-6-guttulatis, hyalinis.

Hab. in foliis Scabiosæ arvensis, Sc. atropurpureæ, Sc. ochroleucæ et Succisæ in Gallia, Britannia, Italia, Lusitania, Belgio, Sibiria asiat.

447. Septoria succisicola Sacc. Mich. I. p. 191. — Maculis indeter- 3000 minatis obsoletis; peritheciis sparsis epiphyllis, punctiformibus, atris; sporulis filiformibus, $20 \approx 1/2$, minute 5-6-guttulatis, hyalinis.

Hab. in pag. sup. foliorum nondum emortuorum Succisæ pratensis in silva Montello Ital. bor. — A Sept. scabiosicola f. Succisæ toto cœlo diversa.

448. Septoria fullonum Sacc. Septoria Dipsaci Schiedermayer Hedw. 3001 1878, p. 174. — Peritheciis minutissimis 120 = 80, gregariis, ovatoglobosis, rugoso-reticulatis, fusco-atris; maculis aridis sordide-albescentibus immersis, ostiolo prominulo; sporulis longissimis, 60-80 = 2, curvatis, filiformibus, hyalinis.

Hab. in pagina utraque foliorum Dipsaci Fullonum in Austria.

449. Septoria Dipsaci West. Bull. ac. roy. belg. II. Ser. t. XII. n. 7. 3002 - Maculis epiphyllis, initio brunneis, dein albis et eburneis, minutis, rotundatis vel angulosis, nervis foliorum limitatis, sparsis vel confluentibus; peritheciis nigris, minutissimis, sparsis; sporulis cylindricis, rectis, $60 \approx 1.2$.

Hab. in foliis Dipsaci azurei in horto bot. Louvain in Belgio (E. MARTENS), et Dipsaci fullonum, Plezzo in agro goritiensi (Bolle). - Forte hæc forma postrema ad Septoriam fullonum pertinet.



450. Septoria Xanthii Desm. 14 Not. 1847, pag. 25. — Epiphylla; 3003 maculis nullis vel sordide flavo-griseis, indeterminatis; peritheciis exilissimis, numerosis, subgregariis, nigris, prominulis, globosis dein collapsis, poro pertusis; cirris tenuissimis albis; sporulis bacillari-linearibus, arcuatis, subacutis, 40 ≈ 2, 8-10-guttulatis, hyalinis.

Hab. in foliis languidis Xanthii strumarii pr. Treviso et Parma in Italia et in Gallia.

451. Septoria inconspicua B. et C. North Amer. Fungi n. 430 bis. — 3004 Peritheciis minimis in macula albida indefinita insidentibus; sporulis rectis tenuibus, 20-28 ≈ 1,5, continuis.

Hab. in foliis Plantaginis lanceolatæ in Carolina sup. et in horto botanico Parma Ital. bor.

452. Septoria Plantaginis (Ces.) Sacc. Ascochyta Plantaginis Ces. 3005 in Kl. Herb. myc. p. 1742. — Maculis griseis subbullatis, primitus orbicularibus, limitatis; peritheciis minutissimis subepidermicis; sporulis fasciculato-erumpentibus filiformi-clavatis, hyalinis, continuis (?), crustulam canam efficientibus.

Hab. in foliis Plantaginis lanceolatæ gelu tactis in Italia bor. et in Rhenogovia.

453. Septoria plantaginea Pass. Fungh. Parm. Sept. n. 105. — Pe- 3006 ritheciis minimis immersis, in maculis e livido exaridis vix ostiolo punctiformi erumpentibus; sporulis filiformi-clavatis rectis aut vix arcuatis, pluriseptatis, hyalinis, 55 ≈ 2,5.

Hab. in foliis languidis Plantaginis lanceolatæ, Langhirano, Parma in Italia. — β. Plant. majoris Sacc. Mich. II. p. 167. A typo differt sporulis brevioribus et angustioribus, nempe $30 \approx 1-1^1/4$, guttulatis, hyalinis; peritheciis lenticularibus, 60-70 μ. diam. — In foliis Plantaginis majoris ad utramque paginam, Cavaso Ital. bor. (A. Rossi).

454. Septoria pamparum Speg. F. Arg. Pug. II. n. 109. — Maculis 2007 epiphyllis, latis $^{1}/_{2}-1^{1}/_{2}$ cent., albo-pallescentibus, sæpe confluentibus, indeterminatis; peritheciis centralibus, sparsis, minutis 90-100 μ . diam., lenticularibus, ostiolo impresso pertusis, membranaceis, contextu parenchymatico, olivaceo; sporulis bacillari-fusoideis, utrinque obtusiusculis, medio non v. 1-septatis, hyalinis, 12-15 \approx 1-1,5.

Hab. in foliis vivis Pircuniæ dioicæ en el Bagnado de Flores Argentinæ.

455. Septoria polygonina Thüm. Pilzfl. Sibir. n. 621. — Peritheciis 3008

epiphyllis, paucis, minimis, lenticulari-applanatis, emersis, fuscis in centro maculis orbiculatis, ochroleucis, late violaceo-marginatis; sporulis numerosissimis, anguste cylindraceis, leniter curvatis, utrinque acutatis, continuis v. obscure biseptatis, hyalinis, $36-48 \approx 1.5$.

Hab. in foliis vivis Polygoni alpini in silvis subalpinis pr. fl. Baraksan Sibiriæ asiat.

456. Septoria Polygonorum Desm. Ann. Sc. nat. 1842, XVII. p. 108. 3009

— Epiphylla; maculis parvis, rotundatis, fulvis, in ambitu purpureis; peritheciis innatis, minutissimis, fusco-pallidis, ore orbiculari late apertis, dein concavis; sporulis filiformibus, leniter flexuosis, 4-5-guttulatis, hyalinis, 25 ≥ 1.

Hab. in foliis Polygoni Bistortæ, P. amphibii, P. Persicariæ, P. nodosæ in Italia, Belgio, Britannia, Lusitania, Amerbor., Sibiria asiat. — β. Sieholdii: maculis expansis, griseis; peritheciis paullo majoribus; sporulis iisdem. — In foliis Polygoni Sieboldii culti in Italia bor.

457. Septoria Rhapontici Thum. Pilzfl. Sibir. n. 813. — Peritheciis 3010 subgregariis, epiphyllis, primo tectis postremo liberatis, hemisphæricis, nigris, vix ostiolatis in maculis arescendo ochraceo-griseolis, indeterminatis, late sed indistincte purpureo-coccineo-marginatis; sporulis fusiformibus, lunulatis, utrinque acutatis, numerosis, continuis, enucleatis, hyalinis, 16-18 = 2,5-3.

Hab. in foliis vivis Rhei Rhapontici in monte Borus Sibiriæ asiaticæ.

458. Septoria Menispermi Thum. Pilzfl. Sibir. n. 818. — Peritheciis 3011 epiphyllis, gregariis, convexo-lenticularibus, mediis, vix prominulis, fuscis in maculis exaridis, pallide ochraceis, griseo-fusco-marginatis; sporulis bacillaribus, utrinque truncatis, arcuatulis, continuis vel obsolete uniseptatis, hyalinis, 40 ≈ 1,5.

Hab. in foliis vivis Menispermi dahurici pr. Maidaschi Sibiriæ asiaticæ.

459. Septoria Spinaciæ West. in Kickx Fl. crypt. Flandr. I. p. 425. — 3012 Peritheciis epiphyllis, minutissimis, brunneis, numerosis in maculis luteis, rotundatis sparsis; sporulis linearibus, utrinque attenuatis, curvatis, 4-8-nucleolatis.

Hab. in foliis languidis Spinaciæ oleraceæ in Belgio. — Dubito an huc pertineat Sphæria (Depazea) Spinaciæ Fr. S. M. II. p. 532: maculis difformibus, indeterminatis, cinereo-nigris; peritheciis sparsis, minimis, punctiformibus, nigris. In foliis Spinaciæ in Germania.

460. Septoria Betæ West. Exs. n. 296 et in Kickx Fl. crypt. Fl. I. 3013 p. 425. — Maculis brunneo-pallidis, centro albicantibus, brunneo-fusco-cinctis; peritheciis epiphyllis, nigris, minutis, prominulis; sporulis cylindricis rectis vel curvatis, plurinucleatis; cirris albidis.

Hab. in foliis Betæ cultæ in Belgio.

461. Septoria Atriplicis (West.) Fuck. Symb. p. 390, Sacc. Mich. I. 3014 p. 190. Phyllosticta Atriplicis West. Bull. Ac. Brux. 1851, p. 397, Desm. Exs. III. n. 683. Cooke F. B. II. n. 41. — Maculis e viridi sordide ochraceis vel albidis; peritheciis sparsis amphigenis, globoso-lenticularibus, 110 μ. diam., pertusis; sporulis cylindraceis vel subfusoideis, 25-35 = 4½-5, utrinque obtusiusculis, rectis vel leniter curvulis, 2-5-truncato-nucleatis vel spurie 1-3-5-septatis, hyalinis.

Hab. in foliis Atriplicis patulæ et Chenopodii muralis etc. in Germania, Gallia, Italia, Belgio, Sibiria, Amer. merid. — In forma Chenopodii maculæ initio minimæ, obsoletæ, tandem latæ et distincte ochraceæ flunt; sporulæ $20-25 \approx 3-31/2$ tantum.

462. Septoria Chenopodii West. in Bull. Ac. d. sc. Bruxelles 1851, 3015 p. 396. — Maculis albo-viridibus dein luteis, luteo-olivaceo vel brunneo-cinctis; peritheciis sparsis, epiphyllis, numerosis, minutis, nigris; sporulis cylindricis rectis vel curvulis, utrinque obtusis, 6-10-guttulatis, hyalinis.

Hab. in foliis vivis Chenopodii albi, C. muralis, viridis in Italia, Lusitania, Belgio, Germania.

463. Septoria Iresines Speg. F. Argent. Pug. II. n. 106. — Maculis 3016 amphigenis orbicularibus v. ellipticis, determinatis, 2-10 mill. lat., zona fulvescente cinctis, candidis, subhyalinis; peritheciis amphigenis, centralibus, densiuscule gregariis, perparvulis 60-70 μ. d., parenchymati innatis, lenticularibus, ostiolo minuto, impresso pertusis, tenui-membranaceis, contextu parenchymatico-olivaceo; sporulis filiformibus, rectis v. flexuosis, continuis v. indistincte septulatis granuloso-farctis, hyalinis, 40-50 ≈ 1-1,5.

Hab, in foliis languidis Iresines celosioidis in herbosis de la Boca del Riachuelo Argentinæ.

464. Septoria rarissima Speg. F. Argent. Pug. II. n. 108. — Maculis 3017 parvulis ½-1 mill. diam., candidis, areola latissima, fulvescente ornatis, epiphyllis; peritheciis perpaucis, atris, minutis 80-90 μ. d., lenticularibus ostiolo impresso pertusis, tenui-membranaceis, contextu parenchymatico, olivaceo-fuligineo; sporulis cylindraceis,

rectis, utrinque obtusiusculis, continuis, granuloso-farctis, 30-35 = 1-1.5, hyalinis.

Hab. in foliis languidis Scleropi amaranthoidis prope

Buenos Aires Argentinæ.

465. Septoria Urticæ Desm. et Rob. 14 Not. 1847, p. 24. — Magu- 3018 lis amphigenis, ochraceis, orbiculatis vel irregularibus; peritheciis epiphyllis, minutissimis, numerosis, fuscis, poro pertusis; sporulis elongatis, tenuissimis, curvatis vel flexuosis, obsolete guttulatis, 40-50 ≈ 2, hyalinis.

Hab. in foliis Urticæ dioicæ et U. urentis in Gallia,

Belgio, Italia, Britannia, Austria.

466. Septoria Cannabis (Lasch) Sacc. Septoria cannabina West. 3019 Bull. ac. roy. belg. II. ser. t. XII. n. 7. Sacc. Mich. II. p. 279, Ascochyta Cannabis Lasch in Kl. H. M. n. 1059 (1846). — Maculis variis arescendo sordide ochraceis; peritheciis sæpe epiphyllis, dense gregariis, innatis, globoso-depressis, poro amplo pertusis, 90 μ. diam.; sporulis bacillari-filiformibus, utrinque acutiusculis, 45-55 ≈ 2-2½, rectis v. curvulis, obsolete 3-septatis, hyalinis.

Hab. in foliis nondum emortuis Cannabis sativæ pr. Pa-

dova, Parma, Plezzo Ital. bor. et in Belgio.

467. Septoria Humuli West. in Kickx Fl. cr. Fl. I. p. 433. — Peri 3020 theciis lentiformibus, 50-60 μ. diam., epiphyllis sparsis in centro macularum irregularium, parvarum pallide fuliginosarum; sporulis filiformibus, leniter flexuosis, 25-35 ≈ 1, utrinque obtusiusculis, eguttulatis, hyalinis.

Hab. in foliis languidis Humuli Lupuli in Italia; Belgio;

Sibiria asiatica.

468. Septoria Mercurialis West. Exs. n. 488. Kickx Fl. cr. Fl. I. 3021 p. 425. — Peritheciis amphigenis, minutis, nigris, in maculis irregularibus initio cinereis dein pallide brunneis fusco-cinctis sparsis; sporulis cylindricis, utrinque truncatis, 3-6-nucleatis.

Hab. in foliis Mercurialis annuæ in Belgio.

469. Septoria Pileæ Thum. in Torr. Bot. Cl. Oct. 1879 et Peck 34 3022 Rep. St. Mus. 45. — Maculis minutis, sparsis, angulosis vel suborbicularibus, definitis arescendo albidis late fusco-olivaceo-cinctis; peritheciis paucis, epiphyllis, minutis, brunneis vel nigro-brunneis, globoso-depressis; sporulis filiformibus, hyalinis, 22-28 ≈ 1,5-2. lenissime curvis, continuis.

Hab. in foliis vivis Pileæ pumilæ, Sandlake et St. Louis Amer. bor. — Species Peckiana a Thümeniana non differre videtur,

470. Septoria Aristolochiæ Sacc. Mich. I. p. 181. - Maculis nullis; 3023 peritheciis hypophyllis, gregariis, punctiformibus, lenticularibus. 40 μ. diam., anguste pertusis; sporulis bacillari-clavulatis, curvulis, $15-20 \approx 1^{3}/4-2$, eguttulatis, hyalinis.

Hab. in pag. inferiore foliorum Aristolochiæ Clematitis,

Conegliano Italiæ bor. (Spegazzini).

471. Septoria Asari Sacc. Mich. I. p. 181. — Maculis epiphyllis e 3024 rotundo angulosis arescendo dealbatis, nigro-cinctis; peritheciis parcis punctiformibus atris; sporulis cylindraceo-fusoideis, $14 \approx 1^3/4$, lenissime curvis, continuis v. 1-septatis, hyalinis.

Hab. in foliis Asari europæi in silva Montello Italiæ bor.

- Sporulis breviusculis a genere paululum desciscit.

B) Carpogenæ.

472. Septoria Catalpæ Sacc. Mich. I. p. 179. — Maculis nullis v. ob- 3025 soletis; peritheciis punctiformibus, hinc inde maculiformiter dense congregatis, lenticularibus, 60-70 \(\mu\). diam., atris, pertusis; sporulis bacillaribus, $10-15 \approx 1^{1}/_{2}$, curvulis, utrinque obtusiusculis, continuis, eguttulatis, hyalinis.

Hab. in capsulis Catalpæ syringifoliæ, Conegliano Ital.

bor. (Spegazzini).

473. Septoria Scopariæ West. V. Not. Hypox. Belg. p. 35. — Ma- 3026 culis minutis, subcircularibus, 3-4 mill. latis, brunneo-pallidis, elevato-atro-marginatis; peritheciis brunneis, sparsis, parcis; sporulis cylindraceis, utrinque attenuatis, 60-80 p. longis, 10-13-guttulato-septulatis, hvalinis.

Hab. in leguminibus subvivis Spartii scoparii in Belgio.

474. Septoria fructigena B. et C. North Americ. Fungi n. 443 bis. 3027 - Peritheciis sparsis minimis; sporulis filiformibus sursum hamatis, 35 µ. longis.

Hab. in fructibus Passifloræ in Carolina inf. Amer. bor.

475. Septoria Ralfsii B. et Br. Ann. N. H. n. 745, t. 15, f. 6. — 3028 Subcutanea, initio epidermide elevata tecta; centro pustularum albo; sporulis rectis, multi-(sæpius 6-)nucleatis, 30 u. longis.

Hab. in fructibus putridis Piri in Britannia. — Maculas atras

irregulares format, pustulis albo-punctatis conspersas.

476. Septoria oleaginea Thum. Pilze d. Œlb. p. 20. — Peritheciis 3029 sparsis majusculis, semiimmersis, atris, hemisphæricis, in macula irregulari pallide ochraceo-fusca, arescente, prominula sitis; sporulis rectis v. subcurvis, acicularibus, utrinque vix rotundatis, ob-

solete 2-3-septulatis, ad septa non constrictis, subinde nucleolatis, $10-15 \approx 1.5$.

Hab. in fructibus Oleæ europææ in Austria.

477. Septoria epicarpii Thum. in Fungi pomicoli p. 121, Symb. myc. 3030 Austr. III. — Peritheciis gregariis vel solitariis, mediis, sine ordine dispositis, punctiformi-orbiculatis, minime elevatis vel subplanis, subimmersis, nitido-atris in maculis determinatis, primo orbiculatis demum valde irregularibus, fusco-griseis, anguste nigro-marginatis; sporulis fusoideo-cylindricis, utrinque subobtuso-acutiusculis, subrectis vel arcuatis, interdum lunulatis, obsolete bi-triseptatis, plurinucleatis, hyalinis, 22 = 4-5.

Hab. in epicarpio vivo Juglandis regiæ, Klosterneuburg in Austr. inf., et Parma in Ital. bor.

478. Septoria nigro-maculans Thum. Symb. myc. Austr. III. n. 66. 3031 — Maculis maximis, irregularibus, sed plus minusve orbiculatis, fusco-nigricantibus non limitatis et marginatis, sæpe confluentibus; peritheciis dense gregariis, interdum confluentibus, lenticularibus, pro ratione maximis, erumpentibus, subnitidis; sporulis cylindraceis, minime curvulatis, utrinque acutato-subrotundatis, obsolete uniseptatis, enucleatis, achrois, 8-12 ≈ 2,5-3.

Hab. in epicarpio fructuum maturorum Juglandis regiæ, Klosterneuburg in Austria inf.

479. Septoria conigena Sacc. et Roum. Sacc. Mich. II. p. 625. — Pe- 3032 ritheciis gregariis erumpentibus, globoso-deplanatis, astomis, 140- 150 μ . diam., contextu minute parenchymatico, olivaceo-fusco; sporulis bacillari-acicularibus, $50-75 \approx 1^3/_4-2^1/_2$, pluriguttulatis, hyalinis, e strato proligero lutescente per basidia brevissima oriundis.

Hab. in squamis conorum Abietis excelsæ in Arduennis (Libert).

480. **Septoria vestita** B. et C. North Americ. Fungi n. 449. — Pe- 3033 ritheciis prominulis applanatis margine furfuraceo vestitis; sporulis brevioribus curvis, 12 μ. longis.

Hab. in fructibus Cucurbitæ in Pensylvania, Amer. bor.

481. Septoria leguminum Desm. 10 Not. p. 10 Kickx Fl. Fland. p. 3034 424,, non S. leguminum β. Pisorum Kickx ibid. nec Ascochyta Pisi Lib. — Peritheciis punctiformibus, globosis, atris, superficialibus, in area fusca indeterminata, sparsis; sporulis bacillaribus, rectis vel vix curvis, apicibus obtusis, integris vel obscurissime septulatis, nubiloso-hyalinis, 30-45 ≈ 3,7-4.

Hab. in leguminibus Phaseoli vulgaris et Pisi sativi in Gallia, Italia, Belgio.

II. In Monocotyledoneis 1).

482. **Septoria Passerinii** Sacc. *Sept. murina* Passer. F. Parm. Sept. 3035 n. 149, nec Thum. — Peritheciis longitrorsum seriatis vel sparsis, punctiformibus, atris; sporulis filiformibus rectis vel vix curvis, continuis, hyalinis, 30-45 ≈ 2.

Hab, in foliis Hordei murini et in spicis Lolii perennis,

Vigheffio pr. Parma Italiæ bor.

483. Septoria arclica B. et C. F. N. Pac. Exp. n. 125. — Perithe- 3036 ciis globosis immersis, siccis collabentibus; sporulis sursum attenuatis linearibus 3-7-septatis.

Hab. in culmis Dupontiæ Fischeri in insula Orukam-

ptchatne maris Pacifici.

484. Septoria simplex (Schreeter) Sacc. Hendersonia simplex Schree-3037 ter, Ein Beitrag zur Kenntniss der nordischen Pilze p. 16. — Peritheciis gregariis subrotundis, 0,1 mill. circ. diam., depressis, nigris; sporulis bacillaribus, 17-26 = 2,2-3, utrinque obtusis, continuis, rectis curvulisve, fuscidulo-chlorinis.

Hab. in culmis emortuis Melicæ nutantis in Lapponia, Suecia.

485. Septoria Melicæ Passer. F. Parm. Sept. n. 140. — Maculis ru- 3038 fis oblongis tandem exaridis; peritheciis tectis, sparsis, punctiformibus; sporulis bacillaribus, rectis vel curvis, apicibus rotundatis vel subinde attenuatis, 3-septatis, hyalinis, 28 ≈ 3.

Hab. in foliis Melicæ unifloræ, Collecchio pr. Parma Italiæ borealis.

486. Septoria Kœleriæ Cocc. et Mor. Enumer. Funghi prov. Bolo-3039 gna II. n. 176. fig. II. — Peritheciis $40-45~\mu$. diam., in foliis et vaginis foliorum insidentibus, in maculis elongatis albido-lutescentibus, numerosissimis; sporulis hyalinis, filiformibus, continuis, luteolis, nunc recurvis nunc undulatis, in apicibus rotundatis, $46-54\approx1.5$.

Hab. in foliis vaginisque Kæleriæ phleoidis pr. Bologna Italiæ borealis (Coccom).

487. Septoria gracilis Passer. F. Parm. Sept. n. 148. - Maculis li- 3040

¹⁾ Species sequentes, in Monocotyledoneis obviæ, nempe: Septoria arctica, Epigejos, donacina, littoralis, ophioides, megaspora, sarmenticia, ob perithecia majuscula, caulicola et non maculicola ad Rhabdosporam essent ducendæ; verum ne seponerem ab aliis affinibus sed adhuc dubiis, eas ad interim hoc loco retinui.

nearibus fuscis, areola flavida mox circumdatis; peritheciis minutis, tectis, atris; sporulis tenuibus brevibus, rectis vel vix arcuatis, integris, hyalinis, $10-12 \approx 0.7$.

Hab, in foliis Agropyri repentis pr. Parmam Italiæ bor. 488. Septoria glumarum Passer. F. Parm. Sept. n. 147. — Maculis 3041 nullis; peritheciis punctiformibus sparsis epidermide tectis, atris; sporulis bacillaribus, rectis vel curvulis triseptatis, hyalinis, 20-25 = 3. loculis nucleolatis.

Hab, in glumis Tritici vulgaris in agro parmensi Italiæ borealis.

489. Septoria Tritici Desm. IX. Not. (1842) pag. 17. — Amphigena; 304. maculis sublinearibus longitudinalibus, albidis, atropurpureo-marginatis; peritheciis innatis, minutissimis, nigris, ovatis rotundatisve, ore orbiculari apertis; cirris carneis; sporulis cylindraceofusoideis, leniter curvis, $60-65 \approx 3^{1}/_{2}-5$, curvulis, 3-5-septatis, hyalinis.

Hab. in foliis languescentibus Triticorum cultorum, Brachypodii, Festucæ, Glyceriæ fluitantis in Gallia, Italia, Britannia.

- 490. Septoria Curtisiana Sacc. Septoria Tritici B. et Curtis, North 3043 Americ. Fungi n. 441 bis, nec Desm. - Gaulicola in macula pallida insidens; peritheciis hysteriiformibus; sporulis tenuissimis. Hab. in culmis Triticorum in Pensylvania (MICHENER).
- 491. Septoria nodorum Berk. Gard. Chron. 1845; p. 601. Macu- 3044 lis pallide ochraceis, fusco-cinctis, depressis vel confluentibus; peritheciis prominulis, initio rubescentibus dein atris; sporulis oblongis, elongatis, leniter curvatis, vel irregularibus.

Hab. in nodis culmi Triticorum ante fructuum maturitatem in Britannia.

492. Septoria Leersiæ Passer. F. Parm. Sept. n. 136. — Maculis 3045 nullis; peritheciis superficialibus, sparsis, punctiformibus, atris; sporulis cylindrico-fusiformibus, subinde clavulatis, rectis vel leniter arcuatis, integris, crebre nucleolatis, hyalinis, 25 = 2,5.

Hab. in foliis siccis Leersiæ oryzoidis, Gajone pr. Parmam Italiæ borealis.

493. Septoria macropoda Passer. F. Parm. Sept. n. 141, S. grami- 3046 num f. Sclerochlow durce Thum. Mycoth. univ. n. 593, Rabh. Fung. eur. n. 2255. — Maculis nullis; peritheciis undique crebre sparsis, lenticularibus atris; sporulis filiformibus tenuissimis rectis,

arcuatis vel flexuosis, continuis, basidiis crassis bulbiformibus fultis, hyalinis, $30-40 \approx 0.7$.

Hab. in omnibus partibus Sclerochloæ duræ pr. Parmam Italiæ borealis.

494. Septoria tenella C. et Ell. in Grevillea. — Sparsa; peritheciis 3047 atris, punctiformibus, prominulis; sporulis linearibus, rectis vel curvulis, hyalinis, 40μ . longis.

Hab. in Festuca tenella, New Jersey Amer. bor.

495. Septoria Poæ Catt. Contrib. allo studio dei miceti del Riso p. 3048
4. nec Oud. — Peritheciis hypophyllis, minutis, hemisphæricis, albis, in maculis subquadratis nigris insidentibus, collabascendo concavis, virescentibus, poro pertusis; sporulis exilissimis, 50 μ. longis, luteo-hyalinis.

Hab. in foliis Oryzæ sativæ in Italia boreali.

496. Septoria Oryzæ Catt. Contrib. allo studio dei Miceti del Riso 3049 p. 5. — Peritheciis innato-prominulis, perexiguis, nigris, numerosis, aggregatis, poro apertis, intra nervos in series parallelas dispositis; sporulis minutissimis, cylindricis, rectis vel curvatis, triseptatis, subhyalinis, 21 ≈ 3.

Hab. in foliis et eorum vaginis Oryzæ sativæ in Ital. bor. 497. Septoria Cynodontis Fuck. Symb. myc. p. 389. — Peritheciis 3050 minutissimis, in stromate spurio nigro seriatim dispositis; ostiolis minutis, papillatis, prominulis; cirris amorphis, sordidis; sporulis filiformibus, longissimis, hyalinis, 50-65 \u22211,7-2.

Hab. in folits Cynodontis Dactyli in Rhenogovia et Italia.

498 Septoria Bromi Sacc. Mich. I. p. 194. — Maculis obsoletis expallentibus, elongatis; peritheciis copiosis globoso-lenticularibus, pertusis; sporulis filiformi-clavulatis, hinc acutis, illinc obtusis, 50-60 ≈ 2, leniter curvis minute pluriguttulatis, hyalinis.

Hab. in foliis Bromi mollis, Conegliano Ital. bor. (Spegazzini), in foliis glumisque Bromi mollis et Phalaridis arundinaceæ pr. Parma. — β . Brachypodii Sacc.: sporulis filiformibus, 30–40 \approx 1-1,2, flexuosis. In ejusdem foliis in Gallia. — γ . Alopecuri Karst. Symb. XV. p. 151: maculis nullis; peritheciis 80-100 μ . diam.; sporulis dilutissime flavidis, $58-65\approx 2.5-3$. In foliis Alopecuri pratensis in Fennia.

499. Septoria Holci Passer. F. Parm. Sept. n. 139. — Peritheciis 3052 in maculis parvulis griseis subrotundis sepulfis, extus haud perspicuis, minutissimis globosis atris; sporulis vermiformibus triseptatis hyalinis, endoplasmate opaco, 20-25 = 3.

563

Sphærioideæ, Scolecosporæ, Septoria.

Hab. in foliis languidis Holci lanati, Collecchio in Ital. boreali. — Ob sporulas ad Sept. affinem accedit, a qua differt ob peritheciorum macularumque naturam.

500. Septoria Epigejos Thum. Fungi aliq. Kirghis n. X. — Perithe- 3053 ciis dense gregariis, lineatim dispositis, majusculis, sine macula, ellipsoideis, emersis, nigris, epidermide tectis; sporulis bacillaribus, leniter curvatis, utrinque obtusatis, 4-5-septatis, numerosis, hyalinis, 45 \pm 3.5-4.

Hab. in culmis, vaginis et foliis subaridis Calamagrostidis Epigeios, Schorlyk (Orenburg) Rossiæ.

501. Septoria affinis Sacc. Mich. I. p. 194. — Maculis linearibus, lon-3054 gitudinalibus, arescendo dealbatis, rufo-cinctis; peritheciis lenticularibus, punctiformibus, 200 a. diam., latiuscule pertusis, nigricantibus; sporulis bacillaribus, subflexuosis, $25-30 \approx 2-2\frac{1}{2}$, utrinque obtusiusculis, 4-5-septatis, non constrictis, e hyalino dilutissime chlorinis.

Hab. in foliis Brachypodii pinnati in silva Montello, et in glumis Bromi mollis in agro parmensi.

502. Septoria Brachypodii Passer. F. Parm. Sept. n. 142. — Macu- 3055 lis nullis; peritheciis hypophyllis sparsis, punctiformibus atris; sporulis bacillari-fusiformibus, obscurissime multiseptatis, plurinucleolatis, dilute melleis 45-55 × 3,5.

Hab. in foliis aridis Brachypodii silvatici, Vigheffio in Italia boreali.

503. **Septoria Oudemansii** Sacc. *Sept. Poce* Oud. Aanwinsten Fl. my- ³⁰⁵⁶ colog. van Nederland p. 9, nec Catt. — Peritheciis sparsis, minutissimis; sporulis hyalinis, 1-septatis, lanceolatis, 12 = 2,3.

Hab. in culmis siccis Poænemoralis pr. Broxmeer Hollandiæ. 504. Septoria silvatica Pass. F. Parm. Sept. n. 143. — Maculis et 3057 peritheciis ut in Sept. Brachypodii; sporulis bacillaribus utrinque obtusis, integris, parce nucleolatis, hyalinis, 28-30 \(\times 2.5\).

Hab. in foliis siccis Brachypodii silvatici, Vigheffio pr. Parmam Italiæ borealis.

505. Septoria Bellunensis Speg. Dec. Mycol. 116. Sacc. Mich. II. p. 3058 167. — Hypophylla v. amphigena; maculis exaridis, pallescentibus, primo oblongo-ellipticis, dein irregularibus sæpeque totum folium occupantibus; peritheciis minutis, 80-90 μ. diam., hinc inde sparsis, parum prominulis, contextu tenui-membranaceo; sporulis cylindraceis, 20-30 ≈ 3-4, utrinque obtusiusculis, 1-2-septatis v. continuis, hyalinis.

Hab. ad folia languida Moliniæ cæruleæ, Belluno Ital. bor. (Spegazzini).

506. Septoria Grylli Sacc. Mich. I. p. 195. — Maculis obsoletis, ex- 3059 pallentibus; peritheciis inordinate sparsis, globoso-lenticularibus, punctiformibus, atris; sporulis filiformibus, longissimis, 75-85 \u22211, utrinque obtusiusculis, eguttulatis, hyalinis.

Hab. in foliis Andropogonis Grylli, Padova Ital. bor.

507. **Septoria arundinacea** Sacc. Mich. I. p. 195. — Maculis oblon- 3060 gis, amphigenis, sordide ochraceis, fusco-cinctis; peritheciis gregariis, innatis, e globoso lenticularibus, ¹/₇ mill. diam., nucleo albo, contextu exquisite laxe celluloso, fuligineo; sporulis bacillaribus, €0-70 ≈ 5-6, curvulis, utrinque vix attenuatis, rotundatis, 6-7-septatis, non v. lenissime constrictis, prope septa guttulas minutas foventibus, e hvalino dilute olivaceis.

Hab. in foliis Phragmitis communis, Padova Ital. bor. et in Gallia (Τμέκκγ). — β. major Sacc.: sporulis $50-55 \approx 4-7$, hyalinis, 10-15-guttulato-septulatis, in cirrum pallide carneolum denique expulsis. In foliis languidis graminum pr. Lyon Galliæ (Τμέκκγ). — β. rhizomatum Sacc. Mich. II. p. 345: sporulis bacillaribus $50-70 \approx 3^{1}/_{3}-4^{1}/_{2}$, 8-9-nucleatis, subhyalinis. In rhizomate Arundinis Donacis in Gallia australi.

508. Septoria donacina Sacc. Mich. I. p. 195. — Maculis nullis v. 3061 obsolete expallentibus; peritheciis sparsis, innato-erumpentibus e globoso depressis, ½ mill. diam., ostiolo exiguo, contextu minute parenchymatico; sporulis dense fasciculatis, filiformibus, 65-80 = 1½, vehementer curvatis, utrinque obtusiusculis, obsolete 6-10-guttulato-septulatis, hyalinis.

Hab. in culmis, præsertim in eorum interiore pariete, Arundinis Donacis in alveo Plavis, Susegana Ital. bor.

509. Septoria Arundinis (Mont.) Sacc. Ascospora Arundinis Mont. 3062 Cent. VI. I. c., p. 47, Syll. n. 1004. — Peritheciis sparsis innato-prominulis ovoideis atris nitidis, poro apicali perforatis intus corneis; sporulis oblongo-linearibus hyalinis, specie 3-septatis, 20 \times 3.

Hab. in culmis Phragmitis in Gallia australi (Castagne).

510. Septoria Phragmitis Sacc. Mich. I. p. 195. — Maculis subova- 3063 tis, arescendo dealbatis, fusco-marginatis; peritheciis punctiformibus, lenticularibus, atris; sporulis cylindraceis, utrinque attenuatis, 20-30 ≈ 1½-2, curvulis, minute guttulatis, hyalinis.

Hab. in foliis Phragmitis communis, Vidor (Treviso) Italiæ bor. -- A Septoria (Ascospora) Arundinis Mont. Syll. 275

longe diversa. — β . minor Sacc. Mich. II. p. 626: sporulis 15-18 \approx 1. In foliis graminum minorum, Elbeuf in Gallia (MALBRANCHE).

511. Septoria littoralis Speg. in Sacc. Mich. I. p. 486. — Peritheciis 3064 5-8 gregariis primo tectis dein erumpentibus, subsuperficialibus, globulosis, atris, ostiolo papillato, sicco umbilicato, donatis; contextu membranaceo, densissime parenchymatico, fuligineo-atro; sporulis cylindraceis, rectis, vel curvulis apice rotundatis, basi subtruncatis, $50-65 \approx 3^1/_3-4$, 3-septatis, pluri-guttulatis, hyalinis in sterigmatibus, ampulluliformibus (ut hyphæ *Chalaræ Ampullulæ*), guttulatis, $10 \approx 4-5$, hyalinis.

Hab. in pagina interna vaginarum Phragmitis communis in insula Lido dicta, apud Venetias, Ital. bor.

512. Septoria Donacis Passer. in Rabh. Fung. eur. n. 2452. — Pe- 3065 ritheciis punctiformibus, atris in maculis parvulis, exaridis, albicantibus, sparsis vel seriatis; sporulis fusiformibus, integris, rectis vel sæpius curvis, hyalinis, 25-35 ≈ 2-2.5.

Hab. in foliis languidis Arundinis Donacis in Italia, Gallia, Lusitania. — Maculæ obsoletæ; perithecia ubique disseminata, innato-prominula, tecta; sporulæ fusoideæ $25-30 \approx 2-2^{1}/_{2}$, rarius tantum $20 \approx 2$, deorsum acutiores nubilosæ.

513. Septoria oxyspora Penz. et Sacc. F. Mortol. tav. IV. fig. 13. 3066 — Peritheciis in maculis aridis plus minusve extensis foliorum insitis, minutissimis, dense congregatis, nonnunquam confluentibus, depressis, ostiolatis, 100-130 μ. diam., contextu brunneo, parenchymatico; sporulis fusiformibus, utrinque attenuatis, cuspidatis, curvulis, falciformibus vel flexuosis, hyalinis, eguttulatis, 20-23 ≈ 3,5-4; basidiis brevibus, filiformibus, dein deliquescentibus.

Hab. in foliis languentibus Arundinis Donacis, Mortola Italia borealis (O. Penzio).

514. Septoria ophioides Sacc. Mich. II. p. 143. — Peritheciis spar· 3067 sis innato-erumpentibus, globoso-depressis v. horizontaliter ovoideis, nigris, ½-½ mill. diam., contextu subparenchymatico ochraceo-fusco; ostiolis obtusis; sporulis bacillaribus rectiusculis, 75-105 \(\pi 2\), dense fasciculatis, utrinque obtusis, pluriguttulatis, denique creberrime minute septulatis, hyalinis.

Hab. in culmis vaginisque graminum minorum cum Astragalis in Persia australi (herb. patav.).

515. Septoria graminum Desm. Ann. Sc. nat. 1843, p. 339. Sept. Tri-3068 lici Thum. Herbar, mycol. ocon. n. 403. S. cerealis Passer, in



Herb. myc. ec. n. 602. Depazea graminicola Berk. Ann. N. H. n. 103. — Peritheciis in maculis plus minus elongatis, expallentibus, sæpius anguste fusco-marginatis, nervis limitatis, seriatis vel subsparsis, tectis, ægre nisi lente perspicuis, fuscis; sporulis tenuissimis, rectis vel sæpius curvis aut flexuosis, integris, minute nucleolatis, $55-75 \approx 1-1.3$.

Hab. in foliis Graminacearum, præcipue Bromi sterilis, Brachypodii silvatici, Tritici vulgaris, Panici etc. in Gallia, Italia, Britannia, Austria, America.

516. Septoria Maydis Schulz. et Sacc. Micr. Slav. n. 57, Schulz. Ill. 3069 Fung. Slav. n. 704. — Peritheciis subgregariis epidermide velatis, globulosis, vix erumpentibus 0, 1 mill. diam.; sporulis cylindraceis, utrinque rotundatis, medio guttulatis, 20-22 = 2, hyalinis.

Hab. in vaginis emortuis Zeæ Maydis prope Vinkovce Slavoniæ.

517. Septoria punctoidea Karst. Hedw. 1884, p. 38. — Peritheciis 3070 subgregariis, subcutaneis, demum erumpentibus, sphæroideis, poro pertusis, atro-fuscis, humectatis fusco-pallentibus, 40-60 μ. diam.; sporulis fusoideo-bacillaribus, curvulis vel rectis, guttulatis, hyalinis, 12-16 ≈ 1,5-2.

Hab. in foliis aridis Caricis misandræ ad Adventbay Lapponiæ (TH. FRIES).

518. Septoria caricinella Sacc. et Roum. Reliq. Libert. IV. n. 152. 30.71 — Maculis oblongis albicantibus fusco- v. rufo-marginatis; peritheciis innatis globoso-lenticularibus; sporulis filiformibus flexis v. rectiusculis, 4-6-guttatis, continuis, 60-70 ≈ 1.5, hyalinis.

Hab. in foliis Caricis depauperatæ in Arduennis (LIBERT).

- A Septoriis caricicola, Caricis et riparia prope diversa.

519. Septoria gracillima (Cooke) Sacc. Darluca gracillima Cooke 3072
Præcursor Monogr. Henders. p. 26. — Peritheciis....; sporulis
linearibus, rectis, multinucleatis, 30 ≈ 2.

Hab. in foliis Caricis in Britannia (?).

520. Septoria Caricis Passer. Funghi Parm. Sept. n. 135. — Peri- 3073 theciis minutissimis tectis sparsis atris; sporulis cylindricis rectis vel vix curvis aut flexuosis, continuis, hyalinis, intus granulosis, $32-40 \approx 2.5$.

Hab. in foliis siccis Caricis divulsæ, Parma in Ital. bor.

521. Septoria caricicola Sacc. Mich. I. p. 196. — Maculis subcircu. 3074 laribus, variis arescendo dealbatis, latiuscule brunneo-marginatis; peritheciis punctiformibus, atris; sporulis cylindraceis, utrinque ob-

tusis, 50 = 4, leniter curvis, 7-8-septulatis minuteque guttulatis e hyalino dilute flavidulis.

Hab, in foliis Caricis ripariæ, Padova in Ital. bor. - Paullulum ad Hendersoniam vergit.

522. Septoria riparia Passer. F. Parm. Sept. n. 134. - Peritheciis 3075 sparsis subglobosis atris, primo tectis dein erumpentibus et epidermide rupta cinctis; sporulis filiformibus vix curvis; continuis, minutissime nucleolatis hyalinis, $37-57 \approx 2$.

Hab. in foliis siccis Caricis ripariæ, Parma in Ital. bor. 523. Septoria lineolata Sacc. et Sp. Mich. II. p. 279. — Maculis ob- 3076 soletis; peritheciis lineari-seriatis, laxiusculis, e globoso depressis, 1/8-1/6 mill. diam., pertusis, initio velatis dein semierumpentibus; sporulis filiformi-acicularibus, deorsum leniter incrassatis rotundatisque, $60-70 \approx 1^3/4-2$, hyalinis.

Hab. in foliis arescentibus Caricis glaucæ etc., Conegliano in Ital, bor. et prope Rouen in Gallia. — A S. caricicola, S. riparia, S. Caricis dispositione peritheciorum formaque sporularum diversa.

524. Septoria Debauxii Roum. F. Gall. n. 27. — Peritheciis innatis, 3077 globulosis, atris, punctiformibus, in maculis subcircularibus candidis v. albidis, brunneo-cinctis sitis, paucis; sporulis linearibus, leniter arcuatis, in cirrum album exeuntibus.

Hab. in calamis Scirpi littoralis in Gallia merid.

525. Septoria Scirpi Sacc. Mich. I. v. 196. — Maculis indetermina- 3078 tis expallentibus; peritheciis gregariis punctiformibus, atris; sporulis bacillaribus 38-40 = 3-31/3, utrinque obtusiusculis, curvulis, 3-septatis, hyalinis.

Hab. in calamis Scirpi lacustris ad lacum Benacum Ital. bor., socia Sphærella Scirpi-lacustris cujus forte spermogonium.

526. Septoria Peckii Sacc. Cryptosporium Scirpi Peck 25 Rep. p. 3079 84. — Peritheciis gregariis subglobosis v. subquadrangularibus, nigris, in macula pallida sitis; sporulis elongato-fusoideis, leniter eurvis, hyalinis, 15-18 a. longis.

Hab. in foliis calamisque Scirpi fluviatilis, Castleton Rensselaer county Amer. bor.

527. Septoria lacustris Sacc. et Thum. Mich. II. p. 347. — Peri- 3080 theciis gregariis epidermide jugiter tectis, globoso-lenticularibus, $\frac{1}{4}$ mill. diam., poro pertusis, contextu parenchymatico pure nigricante; sporulis bacillari-acicularibus, curvulis, 75-85 = 3-31/, utrinque attenuato-obtusiusculis, initio pluriguttulatis, dein (spu-

rie?) 10-12-septatis è hyalino dilutissime fuscidulis, humiditate mox in cirros filiformes, spiraliter tortos fumosos eximie protrusis.

Hab. in calamis Scirpi lacustris diu aqua immersis prope Lyon in Gallia (THERRY).

528. Septoria Scirpoidis Passer. Funghi Parm. Sept. n. 133. — Pe- 3081 ritheciis crebre sparsis, tectis subglobosis atrıs, pustulatim epidermidem sublevantibus, non erumpentibus; sporulis oblongo-clavatis, basidiis filiformibus fultis, integris, hyalinis, 25-30 ≈ 5, intus granulosis, opacis.

Hab. in apice calami Scirpi Holoscheni, S. Ruffino pr. Parmam in Italia bor.

529. Septoria Holoschæni (Mont.) Pass. Funghi Parm. Sept. n. 132, 3082 Ascospora Holoschæni Mont. Syll. n. 1003 et Cent. VI. n. 34, p. 46. — Peritheciis sparsis, epidermide longitrorsum fissa tectis, subsphæricis fusco-atris, ostiolo brevissimo pertenui erumpente instructis, intus albis; sporulis linearibus rectis aut curvulis, 8-12-septatis, obscure nucleolatis, 40-55 ≈ 3, utrinque obtusis.

Hab. in calamis Scirpi Holoschæni præcipue ad summitatem arescentem, Perpignan et Montaud Galliæ (Mont. Cast.) et

pr. Parmam Ital. (PASSERINI).

530. Septoria narvisiana Sacc. Septoria Holoschæni Sacc. Mich. I. 3083 p. 196, non Mont. — Maculis obsoletis; peritheciis globulosis, minutissimis, innato-erumpentibus; sporulis cylindraceo-fusoideis, 50 \approx 4, utrinque acutis, 5-7-septatis, non constrictis, curvulis dilutissime olivaceis.

Hab. in calamis Scirpi Holoschæni in alveo Plavis, Narvesa Ital. bor. — Paullulum ad Hendersoniam vergit. An status spermogonicus Leptosphæriæ Micropogonis Sacc.? Sporulis subfusoideis olivaceis a Sept. Holoschæni certe differt.

531. Septoria Arisari (Dur. et Mont.) Sacc. Rhabdospora Arisari Dur. 3084 et M. Fl. Alg. I. p. 594, Mont. Syll. crypt. p. 278. — Amphigena; peritheciis minutis atris opacis in maculas nigrescentes irregulares aggregatis, 50 μ . d.; sporulis linearibus rectis, $15-20 \approx 1.6$.

Hab. in foliis Arisari vulgaris in Algeria.

532. Septoria Ari Desm. 14 Not. 1847, p. 18, Pass. F. Parm. Sept. 3085 n. 125. — Peritheciis punctiformibus, atris, in maculis subcircularibus, exaridis candidis, fusco-cinctis aggregatis; sporulis filiformibus utrinque leniter attenuatis, rectis vel curvulis, continuis, plurinucleolatis, flavidulis, 42-50 ≈ 2,5.

Hab. in foliis Ari maculati et Ari italici in Gallia et in Italia.

533. Septoria Callæ (Lasch) Sacc. Rhabdospora Callæ (Lasch) Ra- 3086 benh. Herb. Myc. II. n. 554. Depasea Callæ Lasch H. M. n. 368 (diagnosim non vidi).

Hab. in foliis Callæ in Germania.

534. **Septoria lunci** Desm. 21 Not. 1853, p. 1. — Culmigena; peri- 3087 theciis immersis, numerosissimis, 150-200 μ. diam. subseriatis, fuscis, globoso-conicis, demum depressis, epidermide canescenti tectis, ostiolo brevissimo prominulo pertuso instructis; nucleo albido aut argillaceo; sporulis magnis, longissimis, 50-80 ≈ 3, subrectis vel flexuosis, 12-20-nucleatis, nucleis opacis.

Hab. in culmis exsiccatis Junci maritimi et articulati in Gallia.

535. **Septoria Rhynchosporæ** Dur. et Mont. Fl. Alg. I. p. 594. *Rhab*-3088 dospora Rhynchosporæ Mont. Syll. Crypt. p. 278. — Peritheciis minutissimis 80 μ. diam., erumpenti-innatis atris; sporulis oblongo-fusiformibus, obscure septatis, septo medio evidentiori, 10 ≈ 3,5.

Hab. in foliis Rhynchosporæ laxæ in Algeria.

536. Septoria menispora B. et Br. Ann. N. H. n. 425. — Perithe- 3089 eiis epidermide tectis, ellipsoideis, nigris; ostiolo prominulo erumpente; sporulis longissimis, curvatis, utrinque acutis, pluri-nucleolatis, nucleolis non æquidistantibus.

Hab. in foliis Typhælatifoliæ, Spye Park in Britannia et Liege in Belgio.

537. Septoria angusta (Cooke) Sacc. Darluca angusta Cooke Præc. 3090 Monogr. Henders. p. 26. — Peritheciis....; sporulis subfusiformibus, rectis vel curvulis, multinucleatis, pallide olivaceis, 30 ≈ 3.

Hab. in Typha in America boreali.

538. **Septoria filispora** (Cooke) Sacc. *Darluca filispora* Cooke Præc. 3091 Monogr. Henders, p. 25. — Peritheciis....; sporulis filiformibus, multinucleatis, flaveolis, 60 = 2.

Hab. in Typha in specimine Desmazierii cum Hendersonia Typhoidearum commixta, in Gallia.

539. **Septoria Sparganii** Passer. Funghi Parm. n. 124. — Peritheciis 3092 minimis sparsis punctiformibus acutis atris; sporulis subfusiformibus rectis vel curvulis, pluriseptatis, hyalinis, pallidissime flavidis, 43-45 \pm 2.5.

Hab. in foliis aridis Sparganii ramosi, Parma in Ital. bor.540. Septoria Alismatis Oudem. Mat. Myc. Ned. p. 4. Hedwigia 1876, 3093

p. 101. — Maculis fuliginosis subcircularibus demum centro griseo-albicantibus in utraque pagina visibilibus; peritheciis minimis atris, vix lente acriori conspicuis, magis hypophyllis; sporulis cylindricis, rectis, continuis ad polos nucleatis, medio septatis hyalinis, $15-18 \approx 3$.

Hab. in foliis languidis Alismatis Plantaginis, Collecchio in Italia, pr. Driebergen Hollandiæ et in Austria. — Inter Septoriam et Ascochylam ambigit. An Depazea Alismatis West. huc spectat? Septoria Alismatis Thum. Herb. eadem est.

541. Septoria hydrophila Sacc. et Sp. Mich. I. p. 195. — Maculis nul- 3094 lis; peritheciis cladogenis, sparsis, punctiformibus, 120-150 μ . d., lenticularibus, pertusis, contextu laxiuscule-parenchymatico, fuligineo; sporulis bacillaribus utrinque attenuatis, 90 \approx 3, curvatis, pluriguttulatis hyalinis, basidiis filiformibus brevibus suffultis.

Hab. in caulibus Alismatis Plantaginis, Conegliano in Italia boreali (Spegazzini).

542. Septoria alismatella Sacc. Mich. I. p. 196. — Maculis nullis v. 3095 indeterminatis; peritheciis caulogenis e globoso depressis, subcutaneis, 70 μ. diam., pertusis; sporulis bacillaribus, rectiusculis, 15 ≈ 1, utrinque acutatis, eguttulatis, hyalinis.

Hab. in caule Alismatis Plantaginis in silva Montello Ital. bor. — A Septoria Alismatis Oud. prorsus aliena.

543. Septoria Colchici Passer. F. Parm. Sept. n. 131. — Peritheciis 3096 amphigenis in maculis oblongis arescentibus dense sparsis, epidermide tectis, fuscis; sporulis bacillaribus rectis vel curvulis, continuis, intus granulosis, hyalinis, 20-25 = 1.7.

Hab. in foliis Colchici alpini in Apennino prope la Cisa in Italia.

544. Septoria sublineolata Thum. Pilzfl. Sibir. n. 116. — Perithe-3097 ciis epiphyllis, sparsis, sublinearibus, mediis vix emersis, planis, in maculis lineariformibus, exaridis, albidis, fusco-marginatis; sporulis cylindraceo-fusiformibus, pauci-curvatis, utrinque rotundo-acutatis, nucleatis, hyalinis, 60 = 4.

 ${\it Hab.}$ in foliis vivis Veratri nigri, Minussinsk in Sibiria asiatica.

545. Septoria Asphodeli Mont. in Ann. Sc. nat. t, XI. p. 48 (1849) 3093 et Syll. Crypt. n. 1002. — Peritheciis epidermide innatis subtectis globoso-ovoideis sparsis, ostiolo prominulo atro albo-pulverulento; sporulis oblongo-linearibus, 20 = 7, hyalinis, utrinque 1-guttulatis, hyalinis.

Hab. in caulibus Asphodeli fistulosi in Galloprovincia (CASTAGNE). — «An potius Phoma?»

546. Septoria asphodelina Sacc. Septoria Asphodeli West. Bull. Ac. 3099 Belg. Ser. II. f. XII. n. 7. — Maculis epiphyllis, magnis, rotundatis, pallido-brunneis, centro albicantibus, fusco-cinctis; peritheciis minutis, nigris, sparsis; cirris albis; sporulis cylindricis rectis, 30 \(\pi 2.5\):

Hab. in foliis languidis Asphodeli albi in Belgio (R. P. Dumont).

547. Septoria ornithogalea Oud. Aanw. Fl. myc. Hederland VI. p. 6. 3100 — Maculis pallidioribus, semioblongis, ad latera foliorum emarcidorum sitis; peritheciis amphigenis, parvis, nigris, sparsis, unico strato cellularum formatis, poro apicali minuto apertis, nucleo roseo; sporulis singulis hyalinis, linearibus vel lineari-acuminatis, septatis (?), 50-70 = 2-3.

Hab. in foliis Ornithogali umbellati pr. Lugdunum Batavorum (Leyden) Hollandiæ. — A Sept. Ornithogali differre videtur ob perithecia maculas foliorum laterales incolentia, quæ in Sept. Ornithogali foliorum apices arescentes semper occupant.

548. Septoria Ornithogali Passer. in Thum. Mycoth. Univ. n. 496. 3101 Flora 1877, N. 13, Spegazzini Decades mycologicæ italicæ n. 20. — Peritheciis punctiformibus fuscis in folii tractu superiore plus minus longo exarido sparsis; sporulis filiformibus, utrinque leniter attenuatis, rectis vel curvulis, sæpe spurie pluriseptatis, hyalinis, in cirrum longum albidum vel flavidum ejectis, 31-65 ≈ 2,5.

Hab. in foliis Ornithogali umbellati, Parma et Conegliano in Italia bor.

549. Septoria Scillæ West. in Kichx Flor. Fl. I. p. 423. Fuck. Symb. 3102 p. 389. — Peritheciis subimmersis, planis, perforatis, atris; cirris contortis, albis; sporulis filiformibus, longissimis, curvatis vel rectis, hyalinis, 50-75 ≈ 2,7, spurie 5-6-septatis.

Hab. in apice foliorum nondum emortuorum Scillæ bifoliæ, S. maritimæ, S. nutantis, Muscari comosi in Belgio, Germania, Italia, Lusitania.

550. Septoria Urgineæ Pass. et Beltr. F. Sicul. n. 25. — Peritheciis 3103 minutis, superficialibus atris, subglobosis, inter folii nervos gregariis et maculas fuscas, striæformes, protractas formantibus; sporulis fusiformibus rectis, medio septatis, hyalinis, 35 ≈ 5.

Hab. in foliis languidis Urgineæ Scillæ, Licata in Sicilia. 551. Septoria Alliorum West. Bull. Acad. Brux. 1851, p. 396, Kickx 3104 F. cr. Fl. I. p. 423. — Peritheciis epiphyllis, semiimersis, rufo-brunneis, in maculis irregularibus, subviridibus centro albicantibus, sparsis; sporulis cylindricis, flexuosis, utrinque obtusis, 4-6-nucleolatis.

Hab. in foliis Allii Porri etc. in Belgio et Ronchi in Italia boreali.

552. Septoria alliacea Cooke in Grevillea. — Sparsa, punctiformis; 3105 peritheciis immersis, tectis, vix distinctis; sporulis filiformibus, flexuosis, $50-60 \mu$. longis.

Hab. in foliis Allii specie, Belgaum Indiæ orientalis (J. Hebson).
553. Septoria viridi-tingens Curt. in Peck Rep. on the St. Mus. 3106
New Jork. — Maculis obscuris, vagis, confluentibus, viridi-tinctis v. viridi marginatis; peritheciis numerosis, minutis, succineis, molliusculis, raro dein nigricantibus; sporulis continuis filiformibus, 25-30 2. longis.

Hab. in foliis Allii tricocci in Mont. Helderberg in America boreali.

554. Septoria Yuccæ (Schwein.) Sacc. Sphæria Yuccæ-gloriosæ 3107 (Schwein.). Curr. Comp. Sphær. p. 286, t. 49, fig. 208. — Peritheciis innatis, epidermide cinerea secedente tectis, globulosis; ostiolis punctiformibus; sporulis hyalinis, linearibus, 25-45 2. longis, non septatis.

Hab. in foliis emortuis Yuccæ gloriosæ in Pensylvania Amer. bor. — Cfr. Syll. II. p. 399.

555. Septoria yuccogena Sacc. Septoria Yuccæ Thüm. Contr. Fun- 3108 ghi Litor. n. 200 t. l, fig. 6, nec Schw. — Peritheciis amphigenis, sparsis, conicis, prominulis, minutis, vel etiam subgregariis, nigris; sporulis cylindraceis, utrinque acutatis, enucleatis, uniseptatis, hyalinis, 10 ≈ 2,5-3.

Hab. ad folia emortua Yuccæ gloriosæ in agro goritiensi.
— «An potius Ascochyta?»

556. Septoria megaspora Speg. Arg. Pug. I. p. 188. — Peritheciis 3109 majusculis, 250-325 μ. diam., globosis, subcarbonaceis, levibus, atris, parenchymati foliorum immersis, sursum ostiolo conoideo erumpentibus, sparsis, maculis nullis; sporulis cylindraceis, crassis, rectis vel vix curvulis, utrinque obtusis, primo continuis, granuloso-farctis, guttulatis, dein 1-septatis, non vel vix constrictis, hyalinis, 60-100 ≈ 10-12.

Hab. in foliis emortuis Agaves Americanæ ubique vulgatissima in campestribus agri bonaerensis Argentinæ.

557. Septoria Bellynckii West. Bull. Acad. Brux. Ser. II. t. XII. n. 7. 3110 — Maculis nullis; peritheciis numerosis, nigris, nitidis, punctiformibus in areis arescentibus vage sparsis; cirris albidis; sporulis cylindricis rectis vel leniter curvatis, 15 ≈ 1,5.

Hab. in foliis Aloës variegatæ, Namur in Belgio (Bellynck).
558. Septoria Erythronii Sacc. et Sp. Mich. I. p. 197. — Maculis 3111 subcircularibus sinuosisque, albicantibus; peritheciis gregariis, punctiformibus, lenticularibus, prominulis, 80-100 μ. diam., subastomis; contextu minute parenchymatico subochraceo; sporulis filiformibus, subtortuosis, 45-50 ≈ 4, utrinque acutiusculis, pluriguttulatis obsoleteque septatis, hyalinis.

Hab. in foliis Erythronii Dentis-canis, Conegliano in Italia boreali.

559. Septoria Trillii Peck Bot. Gaz. 1879, p. 170. — Maculis sub- 3112 orbicularibus, albidis; peritheciis numerosis, in centro macularum præcipue aggregatis. nigris; sporulis filiformibus, rectis vel curvulis, 20-40 μ . longis.

Hab. in foliis vivis Trillii, Illinois Amer. bor.

560. Septoria brunneola (Fr.) Niessl Mähr. Crypt. p. 35 Sacc. Mich. 3113 I. p. 197. Sphæria brunneola Fr. S. M. II. p. 526. — Peritheciis gregariis, globosis, minimis, subastomis e macula oblonga brunnea nigricante emergentibus; sporulis filiformibus, 75-100 \(\pi\) 2, continuis hyalinis.

Hab. in foliis Convallariæ majalis in Suecia, Italia, Moravia.

561. Septoria Convallariæ West. Les crypt. d'après leurs stat. nat. 3114 p. 40 (nomen).

Hab. in foliis Convallariæ majalis et Polygonati in Belgio et Sibiria.

562. Septoria carpophila Sacc. et Roum. Reliq. Lib. Ser. IV. n. 153. 3115 — Peritheciis gregariis, epidermide velatis, globoso-depressis, ½ mill. diam., pertusis; sporulis anguste fusiformibus, acutis, curvis, continuis, hyalinis, 27-30 ≈ 3.

Hab. in baccis Convallariæ majalis putrescentibus.

563. Septoria Maianthemi West. Exs. n. 940, Kickx Fl. crypt. Fl. 3116 I. p. 429. — Peritheciis hypophyllis, brunneo-nigricantibus, dein applanatis, in maculis latis numerosis indeterminatis, griseo-plumbeis, griseo-nigris, sparsis; sporulis cylindricis, subinde apice vel basi incrassatis, utrinque obtusis, 6-9-nucleolatis, 50-70 × 3; cirris albidis.

Hab. in foliis Maianthemi bifolii prope Louvain Belgii (Ed. Martens). — An huc spectat Sphæria crispans in Wallr. Fl. crypt. n. 3711?

564. Septoria Paridis Passer. F. Parm. Sept. n. 128. — Maculis 3117 parvis irregularibus albo-exaridis ferrugineo-marginatis; peritheciis punctiformibus atris; sporulis filiformibus integris rectis vel leniter curvis, 20 = 1.

Hab. in foliis Paridis quadrifoliæ in Apennino prope la Cisa Ital. bor.

565. Septoria sarmenticia Sacc. Miscell. Myc. F. Gall. n. 2249. — 3118 Peritheciis gregariis, globosis, papillatis, 1/6 mill. diam., subepidermicis; sporulis bacillari-fusoideis, utrinque acutis, continuis, hyalinis, 7-11 = 1,5.

Hab. in caule Tami communis, Rouen in Gallia (MAL-BRANCHE).

566. Septoria Tami West. Bull. Ac. Brux. t. XIX. n. 9. — Macu- 3119 lis epiphyllis, irregularibus, rotundatis vel angulosis, linea incrassata rugosa limitatis, purpureo-fusco-cinctis; peritheciis immersis, minutis, raris, sparsis; sporulis cylindricis, brevibus, utrinque obtusis, 7-S-globoso-nucleolatis.

Hab. in foliis Tami communis, Namur in Belgio.

567. Septoria smilacina Dur. et Mont. Fl. Alger. I. p. 591. Mont. 3120 Syll. n. 1006. — Hypophylla; maculis nullis; peritheciis immersis, prominulis, ovoideis, sparsis pro ratione magnis, apice albocinctis, nucleo niveo farctis; sporulis bacillaribus, rectis, hyalinis, obtusis, 20-40 ≈ 2,7 nucleolatis dein 4-septatis.

Hab. in foliis exsiccatis Smilacis mauritanice, in Algeria Africe et Coimbra Lusitanie.

568. Septoria Smilacinæ Ell. et Mart. Amer. Nat. 1882, p. 1001. — 3121 Maculis cinereis, oblongis, fusco-nigricantibus, marginatis; peritheciis pallido-brunneis, conoideis, sæpe epiphyllis; sporulis hyalinis, filiformibus, guttulatis, 63-114 = 3.

Hab. in foliis Smilacinæ, Chester in Pensylvania.

569. Septoria Gladioli Passer. in Rabh. Fung. eur. 1956, Funghi Parm. 3122 Sept. n. 127. — Peritheciis punctiformibus, atris in maculis exaridis fulvo-marginatis; sporulis cylindricis subrectis, continuis, hyalinis, cirrose ejectis.

Hab. in foliis Gladioli segetum, Parma in Italia, et Gladioli gandavensis, Coimbra in Lusitania.

570. Septoria murina Thum. Contr. Myc. Lusit. n. 387. - Perithe 3123

ciis dense gregariis, epiphyllis, murinis, minutissimis, globulosis in maculis parvis, orbiculatis vel oblongis, tuberculatis, griseis, vix obscurius cinctis; sporulis numerosis, bacillaribus, tri-quinqueseptatis, ad septa constrictulis vel quinqueguttulatis, rectis vel leniter arcuatis, hyalinis, $8-14 \approx 3$.

Hab. in foliis vivis Iridis fœtidissimæ, Coimbra in Lusitania.

571. Septoria Epipactidis Sacc. Mich. I. p. 197. — Maculis oblongis, 3124 arescendo albicantibus; peritheciis lenticularibus, atris, pertusis; sporulis cylindraceo-bacillaribus, 28-30 = 2, utrinque obtuse attenuatis, curvatis, 4-6-guttulatis, hyalinis.

Hab. in foliis Epipactidum, Cadore in Ital. bor. (S. Venzo). 572. Septoria Gymnadeniæ Thüm. Pilzfl. Sibir. n. 817. — Perithe-3125 ciis amphigenis, submagnis, dense gregariis, exsertis, globoso-conicis, saturate fuscis vel nigris in maculis sordide viridibus, indeterminatis latissime sordide albo-viridi-marginatis; sporulis fusiformibus, apice acutatis et curvatis, uni-biseptatis vel pluriguttulatis, hyalinis, 24-26 = 3, basidiis brevibus, irregularibus suffultis.

Hab. in foliis subaridis Gymnadeniæ conopseæ'in silvis Ssamodourowha Sibiriæ asiat. — A Septoria Orchidearum West. et S. Epipactidis Sacc. characteribus indicatis diversa.

573. Septoria Orchidearum West. Exs. n. 638, Kickx Fl. cr. Fl. I. 3126-p. 423. Sacc. Mich. I. p. 197, Sept. Winteri Kunze in Rab. F. Eur. — Maculis obsolete expallentibus, brunneis, subinde areola pallidiore cinctis; peritheciis epiphyllis, minutis, luteo-succineis, dein brunneis vel nigris; sporulis bacillaribus, utrinque acutis, 18-22 = 1, rectiusculis, hyalinis, 6-8-nucleolatis.

Hab. in foliis vaginisque Orchidis latifoliæ, O. Morionis, Listeræ ovatæ, Platantheræ bifoliæ in Belgio, Italia, Gallia.

574. Septoria Martineziæ Thum. Contr. Myc. Lusit. n. 402. — Pe-3127 ritheciis sparsis, solitariis, oblongis, subemersis, hemisphæricis, mediis, atris, epiphyllis, in maculis irregularibus, arescendo ochraceis, spadiceo-cinctis, primo fuligineo-brunneis; sporulis bacillaribus, rectis, utrinque obsolete uniseptatis vel fere continuis sed semper subguttulatis, achrois, 32 × 4.

Hab. ad folia languida Martineziæ caryotæfoliæ in calidariis horti botanici, Coimbra in Lusitania (Moller).

III. Acotyledoneis et in Insectis.

575. Septoria Equiseti Desm. in Moug. Stirp. Vog. n. 1264. Libertella Equiseti Desm. 14 Not. p. 179. — Maculis minutis, ferrugineis; pustulis sparsis, parvulis, subhemisphæricis, epidermide tectis, dein poro pertusis; sporulis linearibus curvatis, utrinque obtusis, hyalinis, pluriguttulatis, $40 \approx 4$.

Hab. in caulibus languidis Equiseti arvensis in Gallia. — Quum cl. Desmazières ad Septoriam suam Libertellam Equiseti

serius transtulerit, perithecia adesse censendum est.

576. Septoria detospora Sacc. Mich. I. p. 529. — Peritheciis laxe 3129 gregariis, epidermide æquali velatis, lentiformibus, diam. ½ mill.: sporulis bacillaribus, flexuosis, 60 ≈ 3, pluriguttulatis, hyalinis, prope basim processu laterali brevi inter se connexis.

Hab. in caule Equiseti limosi pr. Saintes in Gallia (Bru-

NAUD).

577. Septoria mirabilis Peck 25 Rep. p. 87. — Maculis luteis vel 3130 brunneis angulosis, venulis foliorum limitatis; peritheciis hypophyllis, minutis, poro rotundo pertusis, pallidis vel luteis; cirris longis, albis, fragilibus; sporulis latis, simplicibus, oblongo-obovatis, uno apice acutioribus vel subfusiformibus, 32-40 = 12.

Hab. in frondibus Onocleæ sensibilis, Sandlake Amer.

bor. — «An potius ad Nectrioideas spectans?».

578. Septoria aquilina Passer. in Erb. critt. it. ser. II. n. 817, Fun- 3131 ghi Parm. Sept. n. 150. — Peritheciis tectis, vix epidermidem in pagina supera sublevantibus, luce transversa punctum pellucidum sistentibus; sporulis baculiformibus clavatis, crebre articulatis, extremo altero acuto, altero rotundato, hyalinis, opacis, $50-65 \approx 4$. loculis interdum guttulatis.

Hab. in frondibus aridis brunneo-maculatis Pteridis aqui-

linæ, Collecchio et Sala in Italia bor.

579. Septoria Scolopendrii Sacc. Mich. I. p. 197. — Maculis inde- 3132 terminatis arescendo ochraceo-rufescentibus obsoletisve; peritheciis hinc inde aggregatis, punctiformibus, lenticularibus, 50-80 μ . diam., anguste pertusis; contextu denso, atro-olivaceo; sporulis filiformibus, rectis curvulisve, $24-28 \approx 1\frac{1}{2}-2$, utrinque obtusiusculis, guttulatis, hyalinis.

Hab. in fronde Scolopendrii officinarum, Selva Conegliano in Ital. bor. (Spegazzini). — An Sept. Scolopendrii Lac. in

Sphærioideæ, Scolecosporæ, Phleospora.

577

Rev. Myc. II. p. 62 (in ejusdem foliis, Havre Galliæ) huc spectet,

deficiente diagnosi, non liquet.

580. Septoria thecicola B. et Br. Intell. Obs. 1863, p. 9, f. 1, Sphw- 3133 ropsis thecicola Berk. Ann. N. H. n. 424. — Peritheciis superficialibus, convexis, collabentibus, nigris, rugosis poro pertusis; sporulis delicatis, linearibus, rectis, longitudine variis.

Hab. in capsulis Polytrichi piliferi, Aberdeen Britanniæ.

581. Septoria pterophila Sacc. Mich. I. 93, Fungi ital. tab. 90. — 3134 Peritheciis laxe sparsis, e globoso lenticularibus, 100-150 μ. diam., innato-prominulis, ostiolo impresso indistincto, atro-fuigineis; sporulis cylindraceo-vermicularibus utrinque obtusiusculis, 45-50 ≈ 3 ½-44, 6-7-septatis, ad septa non constrictis, e hyalino chlorino-olivaceis.

Hab. in alis putrescentibus Cicadæ Orni, Conegliano in Ital. bor. (Spegazzini).

- PHLEOSPORA Wallr. Fl. crypt. With. Rust. Cab. p. 7. (Etym. phleo effundo, et spora), Septorella Berk. Fusarium Auct. p. p. Perithecia imperfecte evoluta, late pertusa, subcuticularia, e contextu matricis mutato plerumque formata. Sporulæ fusoideo-bacillares, crassiusculæ, 2-pluriseptatæ, hyalinæ. Ad Septoglæum inter Melanconieas valde accedit.
- Phleospora Aceris (Lib.) Sacc. Septoria Aceris (Lib.) B. et Br. 3135
 Ann. N. H. n. 432, Sacc. Mich. I. p. 527, Ascochyta Aceris Lib.
 Exsicc. n. 54, Sept. acericola Desm. 21 Not. p. 11. Peritheciis genuinis nullis, sed nucleis minutis, brunneis, acervulatis, sub-epidermicis; sporulis fusoideo-clavatis, 22-28 ≈ 5, 3-septatis, non constrictis, hyalinis; cirris minutis pallidis.

Hab. in foliis Aceris campestris, Platanoidis et Pseudo-Platani in Italia, Britannia, Gallia, Austria. — Sec. Passer. Sept. Parm. n. 19, sporulæ 2-3-septatæ, 33-36 ≈ 2. An ergo species diversa? — Sept. castanicola et Sept. quercicola affines sunt sed perithecia magis distincta videntur.

2. Phleospora Mori (Lév.) Sacc. Septoria Mori Lév. in Ann. Sc. nat. 3136 1846. V. p. 279, Sacc. Mich. I. p. 175, Fusarium maculans Béreng. Atti Congr. Mil. 1844, Fusisporium Mori Mont. Bull. Soc. Agr. 1853. — Maculis albidis vel ochraceis brunneo-cinctis; peritheciis innatis plerumque epiphyllis globosis, gregariis, sæpe parum distinctis; sporulis cylindricis, curvulis, sursum attenuatis, utrin-

que obtusius culis, 3-septatis guttulatisve hyalinis, $40-50 \approx 4$, basidiis brevibus variis fultis.

Hab. in foliis Mori albæ et M. nigræ in Britannia, Gallia, Italia, Germania, Austria inf. — Ob perithecia sæpe indistincta ad Septoglæum vel Fusarium vergit. Folia, necando, excidere cogit.

3. Phleospora moricola (Pass.) Sacc. Septoria moricola Pass. in Myc. 3137 univ. n. 394. — A Septoria Mori Lev.: maculis indeterminatis, non rufo-limitatis; peritheciis præcipue hypophyllis, minoribus, sparsis vel laxe gregariis, non centralibus, nec circinatis et sporulis exquisite multiseptatis, differre videtur. — An ejusdem forma peculiaris autumnalis?

Hab. in foliis languidis Mori albæ per autumnum, Parma, Padova in Italia bor. — Folia multo minus vexat quam Ph. Mori.

4. Phleospora Ulmi (Fr.) Wallr. Comp. Fl. Crypt. Germ. n. 1545, 3138 Sept. Ulmi Fr. Nov. Fl. Suec. V. p. 78 (1819), Stilbospora Uredo DC. (1815), Sphæria ulmicola Biv. Bern. (1815), — Maculis brunneis; peritheciis tenuibus, sparsis, hypophyllis; cirris albidis; sporulis cylindraceo-botuliformibus, utrinque rotundatis, initio guttulatis, dein 4-septatis, 55 ≈ 6.

Hab. in foliis Ulmi campestris in tota Europa et in Amer. bor. — Spermogonium Phyllachoræ Ulmi (Sow.) Fuck. Ob perithecia subinde obsoleta ad Septoglæum nutat.

5. Phleospora Oxyacanthæ (K. et S.) Wallr. Comp. Fl. Crypt. Germ. 3139 n. 1546, Septoria Oxyacanthæ Kunze et Schm. Mykol. Hefte II. p. 108, Sacc. Mich. I. p. 176. — Maculis flaventibus vel obsoletis; peritheciis lenticularibus, plerumque hypophyllis, subinde imperfectis; cirris lutescentibus; sporulis bacillaribus, deorsum subincrassatis, 70-80 ≈ 6-8, initio granulosis, dein 6-8-septatis, hyalinis.

Hab. in foliis vivis Cratægi Oxyacanthæ in Suecia, Italia, Lusitania, Britannia, Germania, Austria inf. — Ob perithecia minus distincta ad Seploglocum vergit.

RHABDOSPORA Mont. in Fl. Alg. Bot. p. 592, emend. Sacc. Mich. II. p. 6. (Etym. rhabdos virga, baculus, et spora). — Perithecia subcuticulari-erumpentia, globulosa vel depressa, typice papillata, solidiuscula, subinde subhysterioidea, atra vel fusca, plerumque non maculicola, nec foliicola. Sporulæ bacillares vel filiformes, pluriguttatæ vel pluriseptatæ, hyalinæ. Basidia varia vel obsoleta. — A Septoria differt fere ut Phoma a Phyllosticia. Species in Mono-

cotyledoneis obvias interdum sub Septoria retinui. Cfr. p. 560 in nota. Nonnullæ species, ubi perfectius exploratæ, forte ad Phlyctwnam ducendæ erunt.

I. In Dicotyledoneis lignosis.

1. Rhabdospora ribicola (B. et C.) Sacc. Septoria ribicola B. et C. $_{3140}$ North Amer. Fungi n. $444^{\rm bis}$. — Ramulicola; peritheciis sparsis nitidis; sporulis linearibus curvulis, $25~\mu$. longis.

Hab. in ramulis dealbatis Ribis rotundifolii, Wisconsin.

2. Rhabdospora applanata (Pr.) Sacc. Filospora applanata Preuss 3041 F. Hoyersw. n. 319., — Peritheciis globoso-depressis, subtectis; ostiolo minuto, punctiformi, perforato, parvo, atro; maculis elongatis, determinatis, nigris, insidentibus cum floccis pertextis; sporulis filiformibus, albis cum multis guttulis oleosis.

Hab. ad caules herbarum, Hoyerswerda.

3. Rhabdospora Lebretoniana Sacc. et Roum. Reliq. Libert. Ser. IV. 3142 n. 155 (Septoria). — Peritheciis innato erumpentibus, prominentibus, globoso-inequalibus, brevissime papillatis, gregariis, sub-inde confluentibus, subcoriaceis, atris, 3/4 mill. diam.; sporulis filiformibus, sursum conspicue hamatis, 20-24 = 1,5, continuis, hyalinis; basidiis sporula paullo brevioribus, filiformibus fasciculatis.

Hab. in ramis corticatis Genistae in Arduennis (LIBERT).

4. Rhabdospora phomatoides Sacc. Mich. I. p. 175 (Septoria). — 3143 Maculis expallentibus, indeterminatis, cladogenis; peritheciis hinc inde gregariis, subtectis, e globoso lenticularibus, 100 μ . diam., pertusis; sporulis bacillaribus rectis curvulisve, utrinque obtusis, $15-25 \approx 1-1\frac{1}{2}$, pluriguttulatis hyalinis.

Hab. in ramulis Genistæ tinctoriæ in silva Montello Ital. bor. — β . brachyspora Sacc. Mich. H. p. 626: sporulis quam in typo brevioribus, nempe $10 \approx 1-1.5$, guttulatis, hyalinis. In caule Thesii humifusi, Dessenes Galliæ (Therry).

5. Rhabdospora umbonata (Pr.) Sacc. Filospora umbonata Preuss 3144 F. Hoyersw. n. 318. — Peritheciis parvis, atris, basi applanatis, insertis sub epidermide; ostiolo dein erumpente pertuso, ipso pseudostromate ambiente effuso; basidiis brevissimis; sporulis filiformibus, albis, flexuosis.

Hab. in ramis languidis Spartii scoparii, Hoyerswerda.

6. Rhabdospora Cordobensis (Sp.) Sacc. Septoria Cordobensis Speg. 3145 F. Argent. Pug. II. n. 115. — Maculis nullis vel pallide cinerescentibus indeterminatis; peritheciis globoso-lenticularibus, atris



subepidermicis, prominulis, poro papillato pertusis, contextu dense et indistincte parenchymatico, fuligineo-olivaceo; sporulis bacillaribus, utrinque obtusis, flexuosis, crassiusculis, $25-40 \approx 4-5$, 4-magniguttulatis vel 3-pseudoseptatis, hyalinis.

Hab. in ramulis vivis Heterothalami spartioidis in se-

pibus prope Cordoba Argentinæ.

7. Rhabdospora Preussii Sacc. Filospora peritheciæformis Preuss 3146 F. Hoyersw. n. 321. — Stromate villoso-furfuraceo, conferto, conico-acuto, tum circumscripto, aperto; basi latissime crustaceo-effuso et infra basin linea lignum penetrante circumscripto; peritheciis singulis vel plurimis irregulariter circinatis; pulpa sporularum albo-rosea; basidiis brevissimis; sporulis flexuosis filiformibus, albis.

Hab. sub epidermide ramorum Cytisi Laburni, Hoyerswerda.
8. Rhabdospora breviuscula (B. et C.) Sacc. Septoria breviuscula 3147
B. et C. North Amer. Fungi n. 450^{bis}. — Ramicola; peritheciis epidermide elevata conditis; sporulis allantoideis, 25 μ. longis.

Hab. in ramis Robiniæ in Carolina inferiore.

Rhabdospora Magnoliæ (Thum.) Sacc. Cryptosporium Magnoliæ 3148
 Thum. F. Austr. n. 1069. — Peritheciis epidermide primo tectis, demum liberis, vix erumpentibus, nigris; sporulis leniter curvatis, acuminatis.

Hab. in ramulis emortuis Magnoliæ Umbellæ in hortis, Tetschen Bohemiæ sept.

10. Rhabdospora inæqualis Sacc. et Roum. Reliq. Libert. Ser. IV. 3149 n. 156 (Septoria). — Peritheciis dense gregariis innato-erumpentibus globoso-depressis, valde inæqualibus, vix papillatis, atris, ¹/₄ mill. diam.; sporulis fusoideis, utrinque acutis, curvatis, continuis hyalinis, 15-18 ≈ 3; basidiis filiformibus, prælongis, variis, 20-40 ≈ 2,5, hyalinis.

Hab. in cortice levi Sorbi aucupariæ in Arduennis (LIBERT).

11. Rhabdospora Caprifolii Sacc. Mich. I. p. 174 (Septoria). — Ma- 3150 culis indeterminatis, expallentibus, cladogenis; peritheciis punctiformibus, initio epidermide velatis; sporulis filiformibus utrinque attenuatis, $35 \approx 1^{2}/_{4}$, obsolete septatis, hyalinis.

Hab. in sarmentis nondum emortuis Loniceræ Caprifolii in silva Montello Italiæ bor.

12. Rhabdospora ramealis (Desm. et Rob.) Sacc. Septoria ramealis 3151
Desm. et Rob. Exsicc. n. 2189, Ascochyta Ruborum Lib. Exsicc.
n. 244 (?). — Maculis caulicolis purpureis vel brunneo-rufis, dein

pallidescentibus albidis et aridis; peritheciis oblongis, convexis, plerumque subseriatis, $\frac{1}{4} - \frac{1}{2}$ mill. diam., poro minuto pertusis, innatis, dein epidermide fissa, subprominulis; sporulis linearibus, $15-25 \approx 1$, rectis, brevibus, 5-7-nucleolatis; cirro albo.

Hab. in sarmentis vivis Ruborum in Gallia et Belgio.

13. Rhabdospora? persica Sacc. Mich. I. p. 174 (Septoria). — Ma-3152 culis nullis vel expallentibus indeterminatis, cladogenis; peritheciis oblongo-lenticularibus inæqualibus, gregariis, tectis dein prominulis, minutis, atris, pertusis, hyphis filiformibus conidiophoris cinctis; conidiis in hypharum apice acrogenis ovoideis, $10 \approx 4$, 2-guttulatis, hyalinis; sporulis fusoideis, sæpe curvulis 1-(rarius 2-3-) septatis, ad septa constrictis, $13-18 \approx 2-2.5$, hyalinis.

Hab. in ramulis junioribus (quos enecat?) Persicæ vulgaris, Padova Italiæ bor. — Hyphis conidiophoris exstantibus, an

status Capnodii Persicæ Turp.?

14. Rhahdospora hamata Schulz. et Sacc. Micr. Slav. n. 60, Schulz. 3153 Ill. Fung. Slav. n. 86. — Peritheciis, cortice secedente, superficialibus, globoso-conicis, inæqualibus, basi plana adnatis, ½ mill. d.; sporulis filiformibus, apice hamatis, 25 µ. longis, hyalinis; basidiis obsoletis.

Hab. in ramis Cydoniæ prope Vinkovce Slavoniæ. — «An Phlycicena?».

15. Rhabdospora ampelina (Thüm.) Sacc. Cryptosporium ampelinum 3154 Thüm. Symb. Myc. Austr. I. n. 4. — Peritheciis minutis, primo tectis, demum epidermidem perforantibus, sæpe seriatis, subplanis, depresso-globosis, nigris; sporulis cylindraceis, rectis, continuis, utrinque obtusiusculis, 10-14 ≈ 1-1,5, hyalinis.

Hab. in sarmentis subputridis Vitis viniferæ, Klosterneuburg Austriæ.

16. Rhabdospora Müggenburgii (Pir.) Sacc. Septoria Müggenburgii 3155 Pirotta Funghi parassiti dei Vitigni p. 66. — Peritheciis minutis, sphericis, nigris, cortice immersis, demum erumpentibus; sporulis bacillari-fusiformibus, curvulis, dilute fuscis, 9-nucleatis, 46-63 ≥ 3.

Hab. ad ramulos Vitis viniferæ in Slavonia.

17. Rhabdospora tomipara (Pass.) Sacc. Septoria tomipara Passer. 3156 F. Parm. Sept. n. 23. — Peritheciis minutis, atris, per epidermidem dealbatam erumpentibus; sporulis basidiis filiformibus longis fultis, bacillaribus, rectis vel vix flexuosis, tenuissimis, crassis, septulatis, in articulos mox secedentibus, hyalinis, $30 \approx 2.5$ (continuis?).

Hab. in sarmentis emortuis Vitis viniferæ, Vigheffio Italiæ borealis.

18. Rhabdospora Falx (B. et C.) Sacc. Septoria Falx B. et C. No- 3157 tices of North Amer. Fungi p. 76, n. 446bis, Sacc. Mich. II. p. 436, Fungi ital. t. 1173. — Ramincola; maculis nullis vel expallentibus; peritheciis dense gregariis, numerosissimis, majusculis, sphæroideis, demum erumpentibus, brunneolis, circa ostiolum nigrescentibus; sporulis in cirrum album longissimum expulsis, filiformibus, utrinque vix attenuatis, falcatis, $18-20 \approx 2-2.5$, continuis, eguttulatis, hyalinis; basidiis longiusculis, $12-16 \approx 2-2.5$, rectis, hyalinis.

Hab. in ramis Vitis in Carolina inf. Amer. sept. (RAVENEL) et in trunco ramisque vivis Citrorum in frigidariis horti botanici patavini Italiæ bor. (O. Penzig).

19. Rhahdospora flexuosa (Penz.) Sacc. Septoria flexuosa Penz. Funghi Agrumic. in Sacc. Mich. II. p. 437, Fungi ital. t. 1174. — Maculis nullis; peritheciis sparsis vel laxe gregariis, immersis, globosis, atro-brunneis; sporulis filiformibus, flexuosis, utrinque obtusiusculis, continuis, eguttulatis, 25-28 = 1,5-2, hyalinis; basidiis obsoletis vel nullis.

Hab. in cortice ramorum vivorum Citri Aurantii in frigidariis horti botanici patavini Italia bor. (O. Penzio).

20. Rhabdospora Loniceræ (C. et Ell.) Sace. Cryptosporium Loni- 3159 cerw C. et Ellis in Grevillea t. 99, f. 2. — Subgregaria, tecta, epidermide elongato-fissa; peritheciis distinctis, atris; sporulis cylindraceis, arcuatis, utrinque obtusis, hyalinis, 25 a. longis.

Hab. in ramis Louicerse, New Jersey Amer. bor.

- 21. Rhabdospora decipiens (B. et C.) Sacc. Septoria decipiens B. et 3160 C. North Amer. Fungi n. 445. Ramulicola; peritheciis demum denudatis; sporulis tenuissimis, longissimis, flexuosis.
- Hab. in ramulis dealbatis Loniceræ in Carol. inf. Amer. bor.
 22. Rhabdospora lentiformis Schulz. et Sacc. Micr. Slav. n. 58, Schulz. 3161
 Ill. Fung. Slav. n. 843. Peritheciis lentiformibus, h. e. valde depressis, subcutancis, non vel vix erumpentibus, intus pallidis, 250-300 ≈ 70; sporulis cylindricis, utrinque obtusiusculis, varie curvatis, hyalinis, 24-34 ≈ 2.

Hab. in ramis corticatis Fraxini excelsioris prope Vinkovce Slavoniæ.

23. Rhabdospora myelostromatica (Pr.) Sacc. Septoria myelostro- 3162 matica Preuss F. Hoyersw. n. 21. — Peritheciis sphæricis, corneis, atro-fuscis, myelostromati insidentibus, ostiolis perforatis; spo-

rulis naviculiformibus, uniseptatis, albis; nucleo interno; basidiis nullis.

Hab. in cortice dejecto Fraxini, Hoyerswerda.

24. Rhabdospora interrupta (B. et C.) Sacc. Septoria interrupta B. 3163 et C. North Amer. Fungi n. 446. — Ramulicola; peritheciis sparsis; sporulis linearibus, flexuosis, multinucleatis, 50 u. longis.

Hab. in ramulis Viburni Opuli in Pensylvania (M.CHENER).

- 25. Rhabdospora Oleandri Dur. et Mont. Fl. Alg. I. p. 593, Mont. 3164 Syll. crypt. p. 278. Punctiformis; peritheciis membranaceis minutissimis, $70-100~\mu$. diam., innato-prominulis atris, intus massa ceracea albida farctis; sporulis fusiformibus obscure multiseptatis $20 \approx 2$.
- Hab. in ramo dejecto Nerii Oleandri ad Bone in Algeria.

 26. Rhahdospora imperialis Sacc. Mich. I. p. 174 (Septoria). Ma- 3165 culis cladogenis, oblongis, expallentibus; peritheciis gregariis, punctiformibus, sublenticularibus, e globoso depressis, 30 μ. d., ostiolo lato pertusis, contextu parenchymatico fuligineo; sporulis cylindraceis utrinque acutiusculis, curvatis, 16-18 ≈ 2, continuis, hyalinis.

Hab. in ramulis Paulowniæ imperialis, Conegliano Italiae borealis.

27. Rhabdospora verruciformis (B. et C.) Sacc. Septoria verruci- 3166 formis B. et C. North Amer. Fungi n. 447. — Peritheciis majus-culis rugosis; sporulis tenuissimis subrectis.

Hab. in ramis Cephalanthi, Alabama Amer. bor. (Peters).
28. Rhabdospora Passerinii Sacc. Septoria ramealis Passer. F. Parm. 3167
Sept. n. 18, nec Desm. — Peritheciis carbonaceis epidermide, tandem rupta et decidua, tectis; sporulis cylindricis, utrinque vix attenuatis, rectis, 3-septatis, hyalinis, 30-32 ≈ 2.5.

Hab. in ramis Negundinis fraxinifoliæ, Parma Ital. bor.

29. Rhabdospora notha Sacc, Mich. II. p. 103. (Septoria). — Peri-3168 theciis innato-erumpentibus, corticolis, hinc inde in acervulos aggregatis, depresso-globosis, $\frac{1}{5}$ - $\frac{1}{4}$ mill. diam.; sporulis filiformiarcuatis, $30 \approx 1$, hyalinis, basidiis teretibus, $9-11 \approx 1$, rectis suffultis.

 $\it Hab.$ in ramis corticatis Aceris Platanoidis, Saintes in Gallia (Brunaud). — Probabiliter spermogonium $\it Diaporthes$ $\it Hystricis$ (Tode) Sacc. — Var. Coryli Sacc.: differt a typo sporulis rectiusculis, 30-35 \approx 0,7; basidiis longioribus. In ramis Coryli in Arduennis (Libert). — «An $\it Phlyctorna?$ ».

30. Rhabdospora fusicoccoides Sacc. et Roum. Reliq. Libert. Ser. IV. 3169 n. 157 (Septoria). — Peritheciis subcutaneo-erumpentibus grega-

riis, globulosis, vertice subinde impressis, atris, $\frac{1}{2}$ mill. diam., intus ceraceis pallidis; sporulis fusoideis, utrinque acutis, curvis, 16-18=3, hyalinis, continuis; basidiis bacillaribus, sporula dimidio brevioribus, hyalinis.

Hab. in cortice levi Carpini (ut videtur) in Arduennis (Libert).

31. Rhabdospora maculans (B. et C.) Sacc. Septoria maculans B. 3170 et C. North Amer. Fungi n. 448^{his}. — Maculis cladogenis plus minusque definitis, pallidis, obscurius limbatis; peritheciis punctiformibus gregariis; sporulis tenuissimis flexuosis, 25 u. longis.

Hab. in ramulis tenellis Alni in Carolina inf. Amer. bor.

32. Rhabdospora princeps (B. et Br.) Sacc. Septoria princeps B. et 31 n Br. Ann. N. H. n. 940, t. 15, f. 11. — Peritheciis majusculis, depressis, papillatis, epidermide tectis; sporulis cylindricis, oblongis, 5-6-septatis, hyalinis, 50 μ. longis, in massulas varias erumpentibus.

Hab. in ramis Fagi, Batheaston Britanniæ.

33. Rhabdospora Juglandis (Schw.) Sacc. Septoria Juglandis Schw. 3172

B. et C. North Amer. Fungi pag. 76, Sph. Juglandis Schw. (ubi?).

— Peritheciis gregariis, innatis, vix erumpentibus, atris; sporulis bacillaribus, sursum breviter hamatis.

Hab. in ramis Juglandis nigræ in Pensylvania (Michener).
— «An Phlyctæna?».

34. Rhabdospora Montagnei Sacc., Sphæria peregrina Mont. et Fries 3173 Syll. p. 235. — Obtecta, sparsa, raro confluens; peritheciis cylindrico-conicis, truncatis, atris, opacis, spiraliter plicato-striatis, epidermide adnata tectis, ostiolo tandem poro pertuso; sporulis filiformi-linearibus curvulis.

Hab. in ramis Broussonetiæ papyriferæ, Lyon Galliæ (Montagne).

35. Rhabdospora Populorum Schulz. et Sacc. Micr. Slav. n. 59, Schulz. 3174 Ill. Fung. Slav. n. 14. — Peritheciis gregariis subsuperficialibus, globoso-conicis, punctiformibus, obtuse papillatis, 300 μ . d.; sporulis cylindricis, arcuatis, utrinque rotundatis, continuis hyalinis, 16-20 μ . longis, e strato proligero Intescente oriundis; basidiis....

Hab. in cortice duriore Populi, Eperjes Slavoniæ."

36. Rhabdospora diaporthoides Sacc. Mich. II. p. 278 (Septoria). — 3175 Peritheciis gregariis, subepidermicis, globoso-lenticularibus, $^1/_5$ mill. diam., fuligineis; sporulis anguste fusoideis, curvatis, $37-38 \approx 2-3$, pluriguttulatis, hyalinis.

Hab. in ramis salicinis prope Schio Ital. bor. (A. Rossi).

- 37. Rhabdospora salicella (B. et Br.) Sacc. Septoria salicella B. et ₃₁₇₆ Br. Ann. N. H. n. 746, t. XV. f. 7. Subepidermica; peritheciis subglobulosis epidermide pustulatim elevata tectis; sporulis fusiformibus, 3-septatis, 30 μ. longis, cirris rubescentibus, irregularibus. Hab. in ramulis salicinis in Belgio et Britannia.
- 38. Rhabdospora Pini (B. et C.) Sacc. Cryptosporium Pini B. et C. 3177 North Amer. Fungi n. 396. Peritheciis papilliformibus nigris cuticula tectis denique erumpentibus; sporulis angustis, curvatis, uniseptatis utrinque attenuatis, 70 µ. longis; basidiis sporulæ tertiam partem æguantibus.

Hab. in cortice levi Pini, New England Amer. bor. (Sprague).
39. Rhabdospora pinea Karst. Hedw. 1884, p. 58. — Peritheciis laxe 3178

gregariis, subinde cæspitosis vel sparsis, erumpenti-superficialibus, forma varia, ut plurimum rotundatis, scabriusculis, atris vel fuscescenti-atris, astomis, 0,4 mill. diam.; sporulis fusoideo-bacillaribus, curvulis vel subrectis, solito 3-septatis, chlorino-hyalinis, 22-40 \(\times 3-4\).

Hab. in ramis corticatis emortuis Pini silvestris, Mustiala Fenniæ.

40. Rhabdospora pithyophila Sacc. Mich. I. p. 175 (Septoria). — Ma· 3179 culis albicantibus v. obsoletis; peritheciis sparsis minutissimis erumpenti-superficialibus e globoso angulosis, atronitidis, denique collapsis; sporulis bacillari-fusoideis, falcatis, 30 ≈ 3-4, pluriguttulatis, hyalinis, basidiis filiformibus, 30 ≈ 1, fultis.

Hab. in cortice ramorum Abietis, Conegliano in Italia bor. (Spegazzini).

41. Rhabdospora Ephedræ (Auersw.) Sacc., Sphæropsis Ephedræ 3180 Auersw. in Willk. Sertum Floræ Hisp. p. 171. — Peritheciis minutis, rugulosis, astomis, epidermidem tenuiter perforantibus; sporulis continuis, filiformi-cylindricis, leviter curvatis, utrinque rotundatis.

Hab. ad ramos emortuos Ephedræ vulgaris, Valencia Hispaniæ.

42. Rhabdospora ephedrina Sacc. Misc. Myc. F. Gall. n. 2250 (Sept. 3181 Ephedræ). — Peritheciis gregariis, globoso-depressis, pertusis, 80-100 μ . diam., epidermide initio velatis; sporulis bacillaribus, curvis, utrinque obtusiusculis, $26-30 \approx 1.5$, 6-10-guttulatis, hyalinis.

Hab. in ramulis Ephedræ, Rouen Galliæ (Letendre). — «An diversa a Sept. Ephedræ?».

43. Rhabdospora Kirghisorum Sacc. Septoria Ephedræ Thum. Fungi 3182

aliq. in terra Kirghis. n. IX. — Peritheciis parvulis emergentibus, demum pertusis, atris, inæqualiter globosis, dense gregariis absque macula; sporulis cylindraceis, subarcuatis, utrinque acutiusculis, continuis, hyalinis, $20-24 \approx 3$.

Hab. in ramulis Ephedræ distachiæ prope Orenburg et. Minussinsk Rossiæ.

44. Rhabdospora Lituus (B. et Br.) Sacc. Septoria Lituus B. et Br. 3183 Ann. Nat. Hist. n. 744, t. XV. f. 5. — Subepidermica, pustulata; peritheciis depressis; sporulis filiformibus, apice curvatis, 37 μ. longis, basidia paullo superantibus.

Hab: in ramis levioribus in Britannia. — An Phlyctæna?

45. Rhabdospora pustulata (Pr.) Sacc. Septoria pustulata Preuss F. 3184 Hoyersw. n. 23. — Gregaria erumpens; peritheciis insertis, convexis atris, ostiolis perforatis; basidiis nullis; sporulis naviculiformibus, in aliis oblongis, transverse septatis albis.

Hab. in cortice ramulorum dejecto, Hoyerswerda. — «An potius Stagonospora?».

46. Rhabdospora Dianæ (B. et C.) Sacc. Septoria Dianæ B. et C. 3185 North Amer. Fungi p. 445^{bis}. — Ramulicola; peritheciis majusculis apice complanatis; sporulis arcuatis longissimis, nucleolatis utrinque acutissimis.

Hab. in ramis plantæ arboreæ ignotæ, New England Amer. bor. (Murray).

47. Rhabdospora fibriseda (Berk.) Sacc. Hendersonia fibriseda Berk. 3186 Hook. Journ. 1853, p. 42, t. III. f. 10. — Peritheciis subglobosis, iminutis fibrisequis in maculis albis sparsis, nigro-azureis; sporulis elongatis, flexuosis, utrinque obtusis, 37 ≈ 5, obscure nucleolatis; basidiis brevibus, obtusis.

Hab. in ligno betulino, King's Cliffe in Anglia.

II. In Dicotyledoneis herbaceis.

48. Rhabdospora Trifolii (Ellis) Sacc. Septoria Trifolii Ellis Bull. 3187 Torrey botan. Club 1822, p. 74. — Peritheciis subcuticularibus, mox epidermide decedente, subdenudatis, gregariis, maculas elongatas minutas formantibus vel regulariter sparsis; sporulis fusiformibus curvatis, granulosis, 20-38 ≈ 5.

Hab. in caulibus emortuis Trifolii pratensis in Amer. bor.
49. Rhabdospora allantoidea (B. et C.) Sacc. Septovia allantoidea 3188
B. et C. North Amer. Fungi n. 442. — Caulicola, in macula elongata pallida insidens; sporulis leviter allantoideis, 15-12 2. longis.

Hab. in caulibus Medicaginis sativa in Pensylvania (MICHENER).

50. Rhabdospora hortensis Sacc. Mich. II. p. 103 (Septoria). — Peri- 3189 theciis gregariis, epidermide velatis, globoso-depressis, pertusis, $\frac{1}{5}$ mill. diam.; sporulis bacillaribus, curvulis, utrinque obtusis, 30- $40 \approx 3$, nubilosis vel 2-3-pseudo-septatis, hyalinis.

Hab. in caulibus cirrisque Pisi sativi prope Saintes Gallie.

51. Rhabdospora cæspitulosa Sacc. Mich. I. p. 529 (Septoria). — 3190 Peritheciis in cæspitulos elevatos, epidermide cinctos, ½ mill. d., nigros aggregatis, minutis, globulosis, contextu denso fusco-olivaceo; sporulis filiformibus, flexuosis, 24-28 × 1, hyalinis, eguttulatis, basidiis bacillaribus subæquilongis, subsimplicibus suffultis.

Hab. in caule Pelargonii zonalis in calidariis Saintes Galliæ (Brunaud). — Habitus Botryosph. Berengerianæ De Not.

52. Rhabdospora nicæænsis (Thum.) Sacc. Septoria nicæænsis Thum. 3191 Contr. F. Litor. n. 344. — Maculis obsoletis; peritheciis densissime gregariis vel interdum subsparsis, mediis, epidermide primo velatis demum erumpentibus, punctiformibus, nigris; sporulis bacillaribus, utrinque truncatis, rectis vel leniter arcuatis, continuis, enucleatis, hyalinis, 10-12 ≈ 2,5-3.

Hab. in caulibus subaridis Euphorbiæ nicæænsis, Pola in Littorali Istriæ.

53. Rhabdospora Thümeniana (Pass.) Sacc. Septoria Thümeniana 3192
Pass. Fungh. Parm. Sept. n. 108, Leptostroma herbarum f. Euphorbiæ exiguæ Thüm. Fung. austr. n. 552. — Peritheciis sparsis punctiformibus, epidermide tectis, membranaceis fuscis; sporulis filiformibus clavulatis, integris minute nucleolatis, 36-38 ≈ 1,5-2.

Hab. in ramis, caulibus foliisque languidis et mox siccis Euphorbiæ exiguæ, Vigheflio prope Parmam Italiæ bor.

54. Rhabdospora trichophila Sacc. Mich. II. p. 528. — Peritheciis 3193-gregariis, erumpenti-superficialibus, globoso-conicis, 130 μ. diam., atro-nitidulis, pertusis; sporulis bacillaribus, flexuosis, 35-50 = 1½, minute guttulatis, hyalinis.

Hab. in caule tomentoso Althere officinalis prope Rouen Galline (Letendre).

55. Rhabdospora Tunicæ Sacc. Mich. I. p. 193 (Septoria). — Ma-3194 culis nullis; peritheciis gregariis, lenticulari-prominulis, punctiformibus, 60-70 μ . diam. pertusis; sporulis bacillaribus, 15-18 \approx $1^1/_2$ - $1^3/_4$, curvulis, tenuiter 1-3-septatis, hyalinis.



Sphærioideæ, Scolecosporæ, Rhabdospora.

588

Hab. in caulibus languidis Tunicæ Saxifragæ, Padova in Italia boreali.

56. Rhabdospora nigrella Sacc. Mich. I. p. 194 (Septoria). — Ma. 3195 culis obsoletis; peritheciis hinc inde dense aggregatis areolasque atras elongatas efficientibus, punctiformibus, lenticularibus, 60-80 μ. d., pertusis; sporulis bacillaribus, curvulis, 12-15 ≈ 1½, utrinque obtusiusculis, continuis, eguttulatis, hyalinis.

Hab. in caulibus Lychnidis dioicæ, Padova Ital. bor. — β . Antirrhini Sacc. Mich. II. p. 103: sporulis $18-20 \approx 1^1/2$, subcontinuis, utrinque obtusiusculis; peritheciis hemisphæricis, pertusis, $100-120~\mu$. diam. In caule Antirrhini majoris prope Rouen

Galliæ (LETENDRE).

57. Rhabdospora longissima Sacc. Mich. II. p. 280 (Septoria). — Peri- 3196 theciis (?) subsparsis, innato-erumpentibus, globoso-depressis, atris, astomis; sporulis fasciculatis filiformibus, tortuosis, $90-100 \approx 1$, hyalinis, continuis, basidiis furcatis, $15-16 \approx 1^{1}/_{2}$, suffultis.

Hab. in caule Arabidis in M. Grappa Ital. bor. (A. Rossi).

58. Rhabdospora helleborina Sacc. Mich. I. p. 529 (Septoria Helle-3197 bori). — Peritheciis spuriis, subtectis, globulosis, $\frac{1}{8}$ mill. diam., fulvescentibus; sporulis filiformi-falcatis, $30 \approx 1^3/4$, utrinque obtusiusculis, 3-5-nucleolatis, hyalinis.

Hab. in caule Hellebori fœtidi, Rouen in Gallia (Letendre).

59. Rhabdospora Vitalbæ Sacc. Mich. I. p. 193 (Septoria). — Ma- 3198 culis oblongis, obsolete dealbatis, indeterminatis; peritheciis gregariis, punctiformibus, 70-80 μ. d., lenticularibus, pertusis; sporulis bacillari-fusoideis, 12-15 ≈ 3, rectis curvulisve, 2-nucleatis simulateque 1-septatis, non vel vix constrictis hyalinis.

Hab. in caulibus adhuc vivis Clematidis Vitalbæ, Selva Italiæ borealis.

60. Rhabdospora pleosporoides Sacc. Mich. I. p. 128 (Septoria). — 3199 Maculis nullis; peritheciis sparsis cladogenis, epidermide velatis, globoso-depressis, ¹/₂ mill. diam., ostiolo papillato brevi; perithecii contextu celluloso fuligineo; sporulis filiformibus, rectis curvulisve, 38-50 ≈ 1-1¹/₂, continuis, obsolete guttulatis, hyalinis.

Hab. in caulibus herbarum majorum prope Berolinum et in caule Gei urbani in Thiergarten Berolini (P. Magnus); in caule Rumicum, Romæ (Bagnis); in caule Chærophylli temulenti Solidaginis Virgaureæ in Gallia (Letendre); in caulibus emortuis Ranunculi aconitifolii in Helvetia (Morthier). — β . Bosciana Sacc.: sporulis brevioribus et crassioribus, $20 \approx 2-21/2$. In

Sphærioideæ, Scolecosporæ, Rhabdospora.

589

caule herbarum prope Paris (Bosc). — 7. rubescens Karst. Symb. Myc. XV. p. 151: peritheciis maculæ rubescenti insidentibus; sporulis obsolete guttulatis, $35-45 \approx 1.5-2$. In caule emortuo Angelicæ silvestris prope Vasa Fenniæ. — Perithecia habitu et magnitudine *Pleosporæ herbarum*.

61. Rhabdospora nebulosa (Desm.) Sacc. Septoria nebulosa Desm. 3200 10 Not. 1843, p. 7. — Erumpens; maculis griseis, effusis vel elongatis; peritheciis minutissimis, 66 u. diam., nigris, numerosissimis, dense sparsis v. in series longissimas parallelas aggregatis; ostiolo simplici pertuso; cirris tenellis albis; sporulis linearibus, rectis v. curvatis, 30-40 u. longis, 10-15 nucleatis.

Hab. in caulibus siccis Apii petroselini in Gallia. — Var. minor Desm. 21 Not. 1853 p. 6: maculis elongatis, griseis. In foliis et caulibus siccis Barkhausiæ torosifoliæ in Gallia.

62. Rhabdospora Scandicis (Desm. et Rob.) Sacc. Septoria Scandicis 3201 Desm. et Rob. 21 Not. 1853, pag. 7. — Maculis oblongis, pallide brunneis vel viridescentibus; peritheciis numerosis, sparsis, subglobosis, innato-promiuulis, 125-150 p. diam., epidermide tectis, dein subnudis, fuscis, depressis; cirris albis; sporulis elongatis linearibus, curvulis aut flexuosis, 30-40 \(\alpha \) 1,6, indistincte nucleatis.

Hab. in ramis languidis fructibusque Scandicis Pectinis Veneris in Gallia.

63. Rhabdospora Nebula Sacc. Mich. I. p. 193 (Septoria). — Maculis 3202 nullis vel obsolete cinerescentibus, indeterminatis; peritheciis late densiuscule gregariis, punctiformibus lenticularibus, 50-60 μ. d., pertusis, atris; sporulis bacillaribus, curvulis, 15 ± 1, obsolete 1-septatis, hyalinis.

Hab. in caulibus Heraclei Sphondylii, Vittorio Ital. bor.

— 3. Anethi Sacc. Mich. II. p. 103: sporulis linearibus, 12-15 ≥ 1, continuis. In caulibus Fœniculi, Toulouse Gallie. — A Septoria nebulosa Desm. X. Notic. p. 7 probe diversa.

64. Rhabdospora eupyrena Sacc. et Thum. Mich. II. p. 347 (Septoria). 3203

— Peritheciis gregariis epidermide velatis, dein liberis, globosodepressis, papillatis, 1/3-1/2 mill. diam., contextu parenchymatico solidiusculis; sporulis bacillaribus vel acicularibus, rectiusculis. 90 11/2-2, hinc inde guttulatis simulateque 8-10-septatis, hyalinis.

Hab. in caulibus putrescentibus Heraclei Sphondylii prope Lyon Gallia (Therax). — A Septoria pleosporoide Sacc. differt imprimis sporulis multo longicribus.

65. Rhabdospora polita (Fr.) Sacc. Sphæria polita Fr. S. M. H. p. 3204

426, p. p.? Spheropsis polita (Fr.) Fuck. Symb. p. 397. — Peritheciis cæspitose erumpentibus, nitidulis, subastomis; sporulis linearibus obscure multiseptatis, $70 \approx 2-3$, hyalinis.

Hab. in caulibus putrescentibus Chærophylli aurei in Jura. Helvetiæ (Моктник), et Heraclei Sphondylii in Saxonia (Schubert). — Cfr. Svll. I. p. 464.

66. Rhabdospora Brunaudiana Sacc. Mich. I. p. 528 (Septoria). — Pe- 3205 ritheciis laxe gregariis, subcutaneis, lenticularibus, 115 μ. diam., pertusis, denique detectis; sporulis filiformibus, curvis, 25-30 ≈ 1, hyalinis, eguttulatis, basidiis clavatis crassiusculis sporula dimidio brevioribus suffultis.

Hab. in caule Fæniculi officinalis Saintes Galliæ (Brunaun). — A Sept. nebula et nebulosa peritheciis majoribus, basidiorum præsentia etc. differt.

67. Rhabdospora caulogena Sacc. Mich. I. p. 529 (Septoria). — Pe- 3206 ritheciis sparsis, tectis dein erumpentibus, lenticularibus, 100μ . diem., pertusis; sporulis prælongis, filiformibus, $50-60 \approx 1-1\frac{1}{2}$, 6-8-guttulatis, hyalinis.

Hab. in caule Scandicis Cerefolii, Saintes Galliæ (Bru-NAUD). — A Sept. caulicola Sacc. sporulis longioribus et augustioribus differt.

68. Rhabdospora Sceptri Karst. Symb. Myc. Fenn. XII. 1883, p. 112 3207 et XIV. p. 151. — Maculis nullis; peritheciis sparsis, mediocribus vel minutis, e sphæroideo lentiformibus, demum solito (siccis) cupulato-depressis, epidermide tandem leniter rupta velatis, astomis, atris; sporulis simplicibus, bacillari-fusoideis, falcatis, sursum clavulatis, hyalinis, 21-35 ≈ 2, sterigmatibus brevissimis suffultis.

Hab. in caulibus languidis Pedicularis Sceptri-carolini in Suboviguba Lapponiæ rossicæ; et in caule Dianthi superbi, Kola Lapp. rossicæ.

69. Rhabdospora verbenicola Sacc. Mich. I. p. 528 (Septoria). — 3208 Peritheciis laxe gregariis, sub-epidermico-erumpentibus, globoso-lenticularibus, 70-80 μ. diam., late pertusis; sporulis acicularibus, leniter curvis, 30 = 1, hyalinis.

Hab. in caule ramisque Verbenæ officinalis, Rouen in Gallia (Letendre) et in Italia bor.

70. Rhabdospora hedeomina (Peck) Sacc. Septoria hedeomina Peck 3209 33 Rep. St. Mus. p. 25. — Maculis nullis; peritheciis sparsis, minutis, 120-140 \(\nu\). diam., applanatis, inconspicuis, nigris; sporulis filiformibus, valde curvatis, hyalinis, 30-40 \(\nu\). longis.

Sphærioideæ, Scolecosporæ, Rhabdospora.

Hab. in caulibus calycibusque emortuis Hedeomatis pule-

gioidis, Sandlake Amer. bor.

71. Rhabdospora Origani (Brun.) Sacc. Septoria Origani Brunaud 3210 Revue Mycolog. IV. p. 225. — Maculis nullis; peritheciis sparsis, epidermide circum circa nigra tectis, dein prominulis, lenticularibus, nigris, lucidis, pertusis; sporulis cylindrico-bacillaribus, rectis vel curvatis, utrinque leniter acutis, pauci-guttulatis vel indistincte septatis, $35-42 \approx 3$.

Hab. in caulibus emortuis Origani vulgaris, Saintes Galliæ.

72. Rhabdospora Chloræ Sacc. et Speg. Mich. I. p. 192 (Septoria). — 3211 Maculis obsoletis v. vage albescentibus; peritheciis gregariis, punctiformibus, globulosis, prominulis, subastomis, contextu densiuscule parenchymatico nigricante; sporulis filiformibus flexuosis, 35- $40 \approx 1$, 4-6-septulatis, hyalinis.

Hab. in foliis caulibusque Chloræ perfoliatæ, Conegliano Ital. bor. (Spegazzini). — Ad Septoriam quoque multum accedit.

73. Rhabdospora cynanchica Sacc., Bomm. et Rouss. in litt. et herb. 3212 — Peritheciis laxe gregariis, lenticularibus, pertusis, atris, 1/7 mill. diam., epidermide velatis; sporulis cylindraceis utrinque obtusiusculis, 4-6-guttulatis, curvulis, 25-30 = 3, hyalinis; basidiis brevibus paliformibus.

Hab. in caule Cynanchi Vincetoxici pr. Bruxelles Belgii. 74. Rhabdospora peregrina Dur. et Mont. Fl. Alg. I. p. 592, Mont. 3213

Syll. crypt. p. 278, non Sphæria peregrina Mont. (= Rhabdospo ra Montagnei). — Epiphylla; peritheciis sparsis epidermide tandem fissa cingenteque tectis atris, 350 µ. diam., intus fuliginosis, puncto centrali albo; sporulis cylindricis brevissime pedicellatis rectis, utroque fine truncatis, $20 \approx 7.5$.

Hab. in caule, ramis foliisque Rubiæ peregrinæ ad Phi-

lippeville in Algeria.

75. Rhabdospora Wahlenbergii (Speg.) Sacc. Septoria Wahlenbergii 3214 Speg. F. Arg. Pug. IV. n. 296. — Caulibus et foliis infectis arescenti-cinerescentibus; peritheciis hypodermicis, prominulis, lenticularibus, 90-100, densiuscule sparsis, membranaceis, contextu sinuoso-parenchymatico, fusco-fuligineo, circa ostiolum densissimo, subcarbonaceo; sporulis cylindraceo-bacillaribus, utrinque ohtusiusculis, 30-40 = 1.5, continuis, hyalinis.

Hab. ad caules foliaque Wahlenbergiæ linearioidis in

aridis prope la Chacarita Argentinæ.

76. Rhabdospora Solidaginis (C. et E.) Sacc. Cryptosporium Soli- 3215



daginis C. et Ellis in Grevillea t. 99, f. 1. — Gregaria, exigua, brunnea, tecta; peritheciis subapplanatis, pertusis; sporulis numerosissimis, arcte fusiformibus, utrinque acutis, leniter curvulis, hyalinis, 30-35 p. longis.

Hab. in caule Solidaginis, New Jersey Amer. bor.

77. Rhabdospora Nubecula Sacc. Mich. II. p. 103 (Septoria). — Pe- 3216 ritheciis (spuriis) lenticularibus, punctiformibus, velatis, gregariis; sporulis fusoideo-falcatis, $20 \approx 3^{1}/_{2}$, continuis, hyalinis, basidiis teretibus, $15 \approx 3$, obtusiusculis suffultis.

Hab. in caule Solidaginis Virgaureæ, sociá Sphærellû nebulosû in Gallia australi.

78. Rhabdospora helianthicola (C. et H.) Sacc. Septoria helianthicola 3217 Cooke et Harkn. Grev. 1880, p. 6. — Peritheciis semiimmersis, atris, maculas nigras formantibus; sporulis rectis vel flexuosis, linearibus, achrois, 30-35 ≥ 1.

Hab. in caulibus Helianthi in California Amer. bor.

79. Rhabdospora Cirsii Karst. Symb. Myc. XV. p. 151. — Macalis 3218 nullis; peritheciis laxe gregariis subsuperficialibus, rotundatis vel sphæroideo-depressis, sæpe cupulatis, papilla minuta subinde elongata perithecium dimidium subæquante; basi hyphis parcis, fuscis obsessis, atris, 0.3-0.5 mill. diam.; sporulis filiformibus, utrinque attenuatis, rectis, raro curvulis, pluriguttulatis, $45-52 \approx 1-1.5$.

Hab. in caulibus emortuis Cirsii nec non Solani tuberosi. Trifolii medii et Gnaphalii silvatici, Vasa et Mustiala Fennice.

80. Rhabdospora caulicola Sacc. Mich. I. p. 192 (Septoria). — Maragno culis albicantibus vel obsoletis; peritheciis sparsis, minutis e globoso lentiformibus, solidiusculis epidermide tandem leniter rupta velatis, atris, latiuscule pertusis; sporulis bacillari-fusoideis, sursum clavulatis, falcatis, $40 \approx 2^{1}/_{2}$, hyalinis, sterigmatibus brevibus, crassiusculis fultis.

Hab. in caulibus languidis Scabioste graminifolite prope Arco (Trentino).

81. Rhabdospora Centranthi (Brun.) Sacc. Septoria Centranthi Brun. 3220 in Roum. Rev. Mycolog. 1881, Janv. p. 14. — Maculis nullis; peritheciis minutissimis, epidermide tectis, sparsis vel aggregatis, lenticularibus, nigris; sporulis bacillaribus, leniter curvatis, utrinque obtusis, non septatis, hyalinis, $18-20 \approx 2-3$.

Hab. in caulibus exsiccatis Centranthi rubri, Saintes in Gallia. — α An diversa a Sept. Calcitrapæ Thüm.?».

82. Rhahdospora Calcitrapæ (Thüm.) Sacc. Sept. Calcitrapæ Thüm. 3221 Contrib. Myc. Lusit. I. p. 24 (1878). — Peritheciis gregariis, caulicolis, minimis nigris, punctiformibus, globulosis, pseudomaculas irregulares nebulosas, indeterminatas, parvas, plus minusve lineares formantibus; sporulis cylindraceo-fusoideis, utrinque subrotundatis, arcuatis, simplicibus, v. obscure biseptatis, hyalinis, 14-18 \approx 2.

Hab. in caulibus emortuis Centranthi Calcitrapæ, Coim-

bra Lusitaniæ.

83. Rhabdospora continua (B. et C.) Sacc. Septoria continua B. et 3222 C. Not. of North Amer. Fungi p. 11, n. 444. — Caulicola; peritheciis æqualiter sparsis epidermide abditis, prominulis; sporulis filiformibus, rectiusculis; basidiis sporula dimidio brevioribus.

Hab. in scapis emortuis Plantaginis majoris in Pensyl-

vania (Michener).

84. Rhabdospora petiolina Penz. et Sacc. Fung. Mortol. n. 29, tab. IV. 3223 fig. 14 (Septoria). — Peritheciis laxe congregatis, majusculis, subsuperficialibus, sphæroideis, depressis, ostiolo maximo instructis, atris, mycelio atro-brunneo, toruloideo insidentibus, 200-220 μ. d., contextu parenchymatico; sporulis cylindraceis, haud attenuatis, utrinque rotundatis, æqualibus, continuis, in arcum flexis, 20-24 ≈ 1,5-2; basidiis obsoletis.

Hab. in petiolis Rhei (?), Mortola Ital. bor. (O. Penzio).

85. Rhahdospora caudata (Karst.) Sacc. Sept. caudata Karst. Hedw. 3224 1884, p. 38. — Maculis nullis; peritheciis gregariis, superficialibus, hemisphæricis, siccitate vulgo depressis, immo depresse cupulatis, corrugatis, astomis vel ostiolo obsolete papillato, tenuissimis, contextu celluloso fuligineo-atris, 0,2 mill. diam.; sporulis fusoideo-falcatis, guttulatis, 15-25 \(\times 2\), sursum in setulam circiter 15 \(\mu\). longam productis, hyalinis.

Hab. ad caules siccos in Beeren Eiland (TH. FRIES).

- 86. Rhabdospora herbarum (Pr.) Sacc. Septoria herbarum Preuss F. 3225 Hoyersw. n. 22. Peritheciis gregariis, immersis, convexis, minutis, atris; ostiolis perforatis; sporulis elongatis tenuiseptatis, albis. Hab. ad caules herbarum frequens, Hoyerswerda.
- PHLYCTÆNA Mont. et Desm. Ann. Sc. Nat. 1847, p. 16. (Etym. phlyciæna bulla). Perithecia subcutanea, interdum erumpentia, globoso-oblonga, subhysterioideo-dehiscentia, fere incompleta. Sporulæ fusoideo-elongatæ vel filiformes, basidis variis suffultæ, continuæ, hyalinæ. Species nonnullæ ad Rhabdosporam nunc du-

38

ctæ, ubi perithecia plenius innotescant, rectius forte huc transferendæ forent.

Phlyctæna vagabunda Desm. Ann. Sc. Nat. 1847, p. 16, Ascochyta 3226 caulium Lib. Exs. n. 248, Phoma Tami Lamy in Moug. Stirp. n. 1086. — Maculis nullis vel minutissimis, brunneis fibrillosis; pseudo-peritheciis numerosis, sparsis; sporulis hyalinis, curvatis, elongatis, linearibus, obtusiusculis, 7-9-guttulatis, 18-25 μ. longis.

Hab. in caulibus herbaceis emortuis e.g. Phytolaccæ, Tami ecc. in Gallia, Belgio, Britannia et America boreali.

Phlyctæna septorioides Sacc. Septoria phlyctænoides B. et C. 3227
 North Amer. Fungi n. 441. — Caulicola, in macula alba elongata insidens; peritheciis hysteriiformibus; sporulis filiformibus, sursum curvatis, hyalinis, circ. 25 μ. long.

Hab. in caulibus Phytolaccæ Pensylvanicæ, New Eugland Amer. bor. (Michener).

3. Phlyctæna orthospora B. et C. North Amer. Fungi n. 472. — Pu- 3228 stulis oblongis fusco-marginatis, epidermide tectis; sporulis oblongis, 6,2 μ . longis.

Hab. in Phytolacca in Pensylvania (MICHENER). — «An potius Phomæ species?».

4. Phlyctæna complanata (B. et C.) Sacc. Septoria complanata B. 3229 et C. North Amer. Fungi n. 443. — Caulicola; peritheciis grandiusculis, subplanis, hysteriiformibus; sporulis tenuissimis, subrectis, longissimis.

Hab. in caulibus Polygoni Virginici in Pensylvania (MI-CHENER).

5. Phlyctæna Buffoniæ Mont. Cent. VI. n. 43, in Ann. 3, XI. p. 52, 3230 et Syll. n. 1023. — Maculis nullis; pseudo-peritheciis dimidiatis minutis, orbicularibus convexis, poro amplo pertusis, fuscis tandem circumscissis; nucleo gelatinoso; sporulis fusiformibus, hyalinis guttulatis, 20 \(\times 4\).

Hab. in foliolis calycinis Buffoniæ annuæ in agro ligericino, circa Mende Galliæ (Boivin).

6. Phlyctæna phomatella Sacc. Mich. I. p. 528 (Septoria). — Peri-3231 theciis dense gregariis, tectis, vix erumpentibus, inæqualiter globulosis, ¼ mill. diam. subincompletis; sporulis filiformi-uncinatis, 20 ≈ 1, hyalinis, basidiis brevioribus acicularibus suffultis.

Hab. in ramis corticatis Ulmi campestris prope Rouen in Gallia (Letendre). — β . Symphoricarpi racemosæ Sacc. Mich. Fungi Gall. n. 872: sporulis 20-22 \approx 1, basidiis 8-10 \approx 1. In ramis

ejusdem Saintes (Brunaud). — Spermogonium videtur Diaporthes Ryckholtii.

7. Phlyctæna Gossypii Sacc. Mich. II. p. 144 (Septoria). — Perithe- 3232 ciis globosis, depressis, $\frac{1}{3}$ mill. diam., subtectis, contextu parenchymatico pallide fusco; nucleo griseo; sporulis filiformibus, sursum uncinatis, $25-30 \approx 1-1^{1}/4$, hyalinis, basidiis bacillaribus brevioribus suffultis.

Hab. in caulibus Gossypii in Carolina (RAVENEL). — Septorice phomatellæ Sacc. proxima.

8. Phlyctæna Lappæ (Karst.) Sacc. Septoria Lappæ Karst. Hedw. 3233 1884, p. 58. — Maculis nullis; peritheciis sparsis vel laxe gregariis, subcutaneis, oblongatis, applanatis, poro pertusis, 0,2 mill. d.; sporulis fusoideo-bacillaribus, inferne falcato-curvatis, rarius flexuosis vel subrectis, 18-24 ≈ 1.

Hab. in caulibus emortuis Lapparum in Fennia australi.

9. Phlyctæna arcuata Berk. North Amer. Fungi n. 471. — Pustulis 3234 minutis, convexiusculis epidermide tectis; sporulis filiformibus, apice hamatis, 25 a. longis.

Hab. in caule emortuo Solidaginis, New England Americae borealis (Russell).

10. Phlyctæna simulans (B. et C.) Sacc. Septoria simulans B. et C. 3235 North Amer. Fungi n. 442^{bis} . — Caulicola in macula elongata pallida insidens; peritheciis hysteriiformibus; sporulis linearibus curvis, 25 μ . longis.

Hab. in caulibus Nabali, New England Amer. bor.

11. Phlyctæna Johnstonii B. et Br. Ann. N. H. n. 639*. — Maculis 3236 latiusculis; pseudo-peritheciis brunneis; sporophoris flexuosis, longis; sporulis elongatis, curvatis, medio nodulosis, hinc inæqualibus.

Hab. in caule emortuo Senecionis Jacobææ, Berwick Britanniæ. — Sporulæ multoties longiores quam in Ph. vagabunda.

12. Phlyctæna Pseudophoma Sacc. Mich. I. p. 528, F. ital. t. 1176 3237 (Septoria). — Peritheciis laxe gregariis, epidermide velatis, demum erumpentibus, oblongo-ellipticis, depressis, aterrimis, $360-400 \approx 280-300 \ \mu$. d.; sporulis filiformibus, tenuibus, apice curvatis, continuis, hyalinis, $24-28 \approx 1-1,5$.

Hab. in ramis corticatis Populi albæ in Gallia (Letendre), et in cortice ramisque decorticatis Citrorum, in frigidariis r. horti botanici patavini (O. Penzig). — Forte spermogonium Diaporthes cujusdam.

13. Phlyctæna? hysterioides (Pr.) Sacc. Filospora hysterioides Preuss 3238

F. Hoyersw. n. 320. — In ligno superne, stroma sine subiculo, atrum, late tectum, interne cavernulis, perithecium incompletum infra obducens tumescens et rima dehiscens; nucleis gelatinosis fusco-roseis erumpentibus, globosis; sporulis longissimis, filiformibus.

Hab. in ligno Salicis (in circulo doliari), Hoyerswerda. —

An Cytosporina?

14. Phlyctæna dissepta Berk. Fl. New Zeal. p. 194. — Linea nigra 3239 geographica cincta; peritheciis spuriis convexis, poro pertusis (ab epidermide atrata formatis?); sporulis tenuissimis, elongatis, filiformibus, apice curvis, 42-46 ≈ 2 μ. diam; sporophoris filiformibus.

Hab. in caulibus emortuis Rhipogoni, Titiokura Novæ Ze-

landiæ (Colenso).

15. Phlyctæna Smilacis Cooke F. Texas n. 141. — Tecta, minuta, 3240 brunnea, dense gregaria, leniter elevata; sporulis filiformibus, elongatis, ad apicem curvulis, 20-25 μ. longis.

Hab. in caule Smilacis, Houston Texas Amer. bor.

GELATINOSPORIUM Peck 25 Rep. on the St. Mus. p. 48 (Etym. gelatina et spora). — Perithecia submembranacea, erumpentia, apice latiuscule dehiscentia, in sicco rugosa. Sporulæ elongatæ, filiformes, continuæ. — Perithecia madore apice hiant ostenduntque nucleum albidum gelatinosum sporularum. — «An genus satis diversum a Micropera?»

Gelatinosporium betulinum Peck 25 Rep. St. Mus. New York. p. 84. 3241
 Peritheciis majusculis, cæspitoso-aggregatis, prominentibus per epidermidem transverse fissam erumpentibus, vertice irregulariter hiantibus, nigris; sporulis hyalinis, subfiliformibus, apicibus acuminatis, nucleatis, 32-40 µ. longis.

Hab. in ramis emortuis Betulæ lentæ, Greenbush Amer. bor. — Perithecia plerumque bina v. terna in quoque acervulo, quæ in sicco corpus irregulare unicum conflare videntur.

2. Gelatinosporium abietinum Peck 25 Rep. p. 84. — Peritheciis mi- 3242 nutis, sparsis, nigris; sporulis maxime elongatis, subfiliformibus, utrinque cuspidatis, curvis, pluriguttulatis, subhyalinis, 65-75 μ . longis.

Hab. in ramis emortuis Abietis canadensis (Hemlock tree), Greenbush Amer. bor.

SPHÆROGRAPHIUM Sacc. (Etym. quasi Sphæronæma ad Graphium nutans). — Perithecia verticalia, conica vel spiniformia, rigidula

Sphærioideæ, Scolecosporæ, Sphærographium.

597

atra. Sporulæ fili-fusoideæ, continuæ, hyalinæ, sæpius stipitellatæ guttulatæque. — Num omnes species huc vere spectent, vel (si sporulæ exogenæ) ad genus stilbeum *Harpographium*, adhucdum dijudicare nequeo.

1. Sphærographium Loniceræ (Fuck.) Sacc. Sphæronæma Lonice- 3243 ræ Fuck. Symb. pag. 275. — Peritheciis spuriis, sparsis, 1 mill. altis, acicularibus, acutis, atris, globulo albo minutissimo terminali; sporulis angustissimis, fusoideis, curvatis, 4-guttulatis, 32 = 2, hyalinis.

Hab. in ramis subvivis Loniceræ Xylostei et alpigenæ in Jura Helvetiæ, socià Dothiorà Loniceræ.

Sphærographium squarrosum (Riess) Sacc. Sphæronæma squar- 3244
rosum Riess Bot. Zeit. 1853, p. 133, t. III. f. 36-39. — Peritheciis atris, subcylindricis, sursum attenuatis, squarroso-squamulatis, ore fimbriato pallidiore; sporulis fusiformibus utrinque acutis, curvatis, pellucidis, 30 μ. longis.

Hab. in cortice adhuc virente ramulorum Loniceræ Xylostei, Allendorf Germaniæ.

3. Sphærographium capillare (Ell. et Harkn.) Sacc. Sphæronæma 3245 capillare Ell. et Harkn. Bull. Torr. Cl. 1881, p. 51. — Peritheciis capillaribus, nigris, 21/2 mill. alt., basi apiceque tenuiter incrassatis; globulo terminali pallido, conidiis cylindraceis, obtusis, curvulis v. flexuosis, plurinucleatis, 25-37 = 3,5-5.

Hab. in cortice ramorum Castaneæ, Bethlehem in Pensylvania Amer. bor.

4. Sphærographium hystricinum (Ell.) Sacc. Sphæronæma hystricinum Ellis in Thüm. Myc. univ. n. 787 et in Bull. Torr. 1876, p. 106. — Peritheciis dense gregariis, cylindrico-subulatis, transverse rugosis, rufo-fuscis, globulo minuto, hyalino cum levi rufi coloris tinetura; sporulis angustis arcuatis, utrinque acuminatis, 3-4-nucleatis, circiter 25 μ. longis, hyalinis, cum stipite vero sæpe adhærente, 35 μ. longis.

Hab. in truncis ramulisque emortuis Azaleæ viscosæ, New Jersey Amer. bor. (J. B. Ellis).

5. Sphærographium echinatum (B. et C.) Sacc. Sphæronæma.echi- 3247 natum B. et C. North Am. F. n. 398. — Peritheciis globosis; collo longo processibus echiniformibus subverticillatis ornato; sporulis filiformibus curvulis.

Hab. in ramis Rhododendri in montibus New Jork Ame rice borealis.

6. Sphærographium stellatum (Ellis) Sacc. Sphæronæma stellatum 3248 Ellis Torr. Cl. 1876, p. 107. - Peritheciis cæspitosis, ovato-conicis acutis, apice rufescentibus; sporulis elongatis, arcuatis vel sigmoideis, $35-38 \approx 5$, plurinucleatis.

Hab. in ramis emortuis Ilicis glabræ, South Jersey in America bor. — Habitus Sph. cæspitosi, sed sporulæ prorsus diversæ.

7. Sphærographium seriatum (B. et C.) Sacc. Sphæronæma seriatum 3249 B. et C. North Am. F. n. 405. - Peritheciis majoribus subcylindricis transversim seriatis erumpentibus, apice collapsis, contextu exteriore rufo-brunneo, interiore fusco-albido; sporulis filiformibus undulatis e strato pallide brunneo oriundis, hyalinis, basidio fuscidulo triplo longioribus.

Hab. in ramis corticatis Betulæ, Massachusetts Amer. bor. (SPRAGUE).

8. Sphærographium Fraxini (Peck) Sacc. Sphæronæma Fraxini Peck 3250 Rep. on St. Mus. New York. - Peritheciis cortice interiore nidulantibus, epidermide tectis, ostiolo erumpente longo, rigido, spiniformi; globulo albido; sporulis longis, angustis, curvis v. flexuosis, utrinque tenuatis, multinucleatis, hyalinis, 50-60 \u03bc. longis.

Hab. in ramis emortuis Fraxini americanæ, socia Tympanide Fraxini, cujus forte spermogonium.

9. Sphærographium Microperæ (Cooke) Sacc. Sphæronæma Micrope- 3251 ræ Cooke in Grevillea. - Peritheciis in pustulis Microperæ nidulantibus, elongatis, supra attenuatis, rectis vel curvulis, atris; sporulis arcte fusiformibus, curvulis, continuis, hyalinis, 40 u. long. Hab. in pustulis Microperæ, Darien in Georgia Amer. bor.

CORNULARIA Karst. Hedw. 1884, p. 57 (sub nom. Corniculariella) (Etym. a cornu). - Perithecia e basi bulbosa v. æquali teretia v. tereti-clavata, superficialia, cæspitosa, raro simplicia, contextu membranaceo carbonaceo. Sporulæ fusoideo-bacillares, vulgo falcatæ, septatæ, hyalinæ v. flavidæ. - Nisi sporulæ endogenæ, ad stil-

beum genus Arthrobotryum valde accedit.

1. Cornularia Abietis Karst. Hedw. 1884, p. 58. — Peritheciis tere- 3252 tibus v. cylindraceo-clavatis, clavula subinde rotunda, superficialibus, cæspitosis v. discretis, atris, nitidulis, fragilibus, 1-11/, mill. alt.; sporulis fusoideo-bacillaribus, utrinque acutatis, falcatis, rarius rectis v. flexuosis, 7-septatis, chlorino-hyalinis v. hyalinis, 50-72 = 6-8.

Hab. in ramis corticatis emortuis Abietis excelsæ, Mustiala Fenniæ, sociá Cytosporâ Abietis.

2. Cornularia Boudieri (Rich.) Sacc. Sphæronæma Boudieri Ch. 3253 Rich. in Rev. Myc. II. p. 92, t. VI, f. 6. — Peritheciis gregariis, vix 1 mill. long. nigris, superne in collum fimbriatum productis et radiatim globulum cingentibus, medio ventricosis, basi angustatis; globulo sporulis aciculari-fusiformibus, diametro suo plus quam 10-plo longioribus curvulis, tenuiter 3-7-septatis non constrictis, gelatinæ immersis composito.

Hab. in cortice Pinorum pr. Montmorency Galliæ (Boudier).

3. Cornularia Persicæ (Schw.) Sacc. Sphæronæma Persicæ (Schw.) 3254 Ell. N. A. F. n. 946, Sporonyla Persicæ Schw. Car. p. 99. — Peritheciis spiniformibus e basi bulbosa erumpente, nigris, rigidulis, globulo ovato-globoso, compacto; colli perithecii contextu e cellulis filiformibus brunneis conflato; sporulis ex ejusmodi cellulis interioribus enatis anguste fusoideis, 7-8-septatis guttulatisque, 60-70 ≈ 3-3,5, olivaceis, apice pallidioribus.

Hab. in ramis Cerasi et Persicæ in America boreali.

4. Cornularia macrospora (B. et C.) Sacc. Sphæronæma macrospo- 3255 rum B. et C. North Am. F. n. 404 bis. — Subcylindricum, basi parce dilatatum; sporulis longis filiformibus flexuosis, 7-8-septatis radiantibus coronatum.

Hab. in ramis Robiniæ in Carolina inf. Amer. bor. — Perithecium (stroma?) leniter basi incrassatum, e cellulis elongatis formatum.

5. Cornularia hispidula (Ellis) Sacc. Sphæronæma hispidulum Ellis 3256 Torr. Cl. 1876, p. 106. — Perithecits sparsis, lineari-clavatis, acutis, nigris, sub vitro minute hispido-pubescentibus, 1-1½ mill. alt.; globulo albido; sporulis lineari-lanceolatis, curvulis, 8-10-septatis, 60-65 ≈ 5, pallide flavis, articulis extimis hyalinis.

Hab. in ramis emortuis Nyssæ multifloræ in South Jersey Americæ borealis.

6. Cornularia sphæroidea (Ell.) Sacc. Sphæronæma sphæroideum 3257 Ell. Bull. Torr. Bot. Cl. 1881, p. 65. — Initio epidermide tectum, setulis brunneis, asperis vestitum, dein erumpens depilatum, sed rugulosum, brassicæ seminis magnitudine, ostiolo subconico, mox collabascente; sporulis clavato-fusoideis, leniter curvis, tenuiter 3-septatis, apice obtusis, deorsum tenuatis, stipitellatis, 35-38 μ. long. (cum stipite).

Hab. in caulibus herbaceis, Pleasant Valley, Utah Amer. bor.



7. Cornularia microscopica (Fuck.) Sacc. Sphæria microscopica 3258 Fuck. Symb. p. 275, an Fries. - Peritheciis sparsis subsuperficialibus, minutissimis, rostro perithecio sublongiore, aciculari, 164 = 66 (fungo integro); sporulis anguste fusoideis, rectis curvulisve obscure 8-10-septatis, $24 \approx 2-3$, hyalinis.

Hab. in ramis putridis Populi italicæ, socià Dothiorâ mutilâ Fuck., cujus pycnidium, teste Fuck.

8. Cornularia Viburni Sacc. Cenangii Viburni pycnidium Fuck. 3259 Symb. p. 272. — Peritheciis sparsis cæspitosisve, elongato-conicis. subinde parum ventricosis, acutis, quandoque ramosis, lineam longis, aterrimis, subtilissime perforatis, globulo sordido, minuto coronatis; sporulis anguste fusiformibus, curvatis, 1-3-septatis, se ptis obscuris, sed distinctis, multiguttulatis, 68 = 4 (medio), hvalinis.

Hab. in ramis corticatis Viburni Opuli in Rhenogovia.

ERIOSPORA B. et Br. Ann. N. H. n. 438, Berk. Outl. p. 323 (Etym. erion lana, et spora). - Stroma depressum intus multicellulare, loculi subglobosi; sporulæ fasciculato-quaternatæ v. senæ, filiformes, continuæ, hyalinæ, basidio brevi communi suffultæ, tandem per orificium commune ejectæ.

1. Eriospora leucostoma B. et Br. Ann. N. H. n. 438, p. 17, t. XI. 3260 f. 1. Fuck. Symb. p. 398. - Maculis piceo-atris; stromate depresso, effuso, tenui, marginali, vix 2 mill. lat., centro ore punctiformi, albo-limbato, pulverulento dehiscente; loculis numero variis subglobosis v. mutua pressione subcompressis; sporulis fasciculato-quaterno-senis, filiformibus, continuis, hyalinis, basidio communi brevi crassiusculo suffultis, mox secedentibus et per os commune expulsis.

Hab. in foliis emortuis Typhæ, Caricis silvaticæ et strictæ in Britannia et Rhenogovia.

DILOPHOSPORA Desm. Ann. Sc. nat. 1840, pag. 67 (Etym. dis bis, lophos crista, et spora). — Perithecia globulosa, pertusa, sepius crustula stromatica tecta. Sporulæ cylindraceæ, continuæ, hyalinæ, utrinque setuloso-penicillatæ.

1. Dilophospora Graminis Desm. Ann. Sc. nat. 1840, p. 67, t. I. f. 2, 3261 Richon, Not. Dilophosp. cum icone. — Peritheciis minutis, crustula stromatica nigricante tectis, seriatis, subconnatis, globosis, stromate immersis, ostiolis punctiformibus, nigris, disco albido: sporulis cylindricis, $10 \approx 1.7-2$, hyalinis, utrinque truncatis setulasque divergentes, 4-6 filiformes, subinde furcatas, 4-5 ≈ 0.5 gerentibus.

Hab. in vaginis et spicis Alopecuri agrestis, Tritici, Festucæ ovinæ in Gallia, Britannia, Belgio.

2. Dilophospora Geranii Schröt. Nord. Pilz. p. 16. — Peritheciis gre- 3262 gariis, subepidermicis erumpentibusque, globoso-depressis, papillulatis, 0,3 mill. diam., nigris; sporulis oblongo-cylindraceis, utrinque rotundatis, 14-17 \(\times 4,5-6\), continuis, hyalinis, infra apicem setulam 2-3-dichotomo-ramosam, teneram gerentibus, ramulis patulis, recurvis sporulam duplo triplove superantibus.

Hab. in petiolis emortuis Geranii silvatici, Quickjok et Wallibacken Lapponiæ suecicæ. — «Videretur fere Pestalozziella perithecio instructa.»

- CYTOSPORINA Sacc. Mich. II. p. 263 (Etym. a Cytospora, cui affinis), Dumortiera West. Bull. Not. V. p. 29, nec Nees. Stroma valseum, verruciforme v. effusum, corticale v. lignicolum; peritheciis subimmersis, ostiolis variis sæpe emergentibus. Sporulæ filiformes, curvulæ, hyalinæ, continuæ, basidiis variis suffultæ. Hoc genus se habet præ Cytospora ut, inter Melanconieas, Libertella præ Næmospora.
- 1. Cytosporina ludibunda Sacc. Mich. I. p. 519 (Cytospora). Stro- 3263 matibus subcutaneis variis nigro-cinctis, pluricellularibus, aureo-farctis; sporulis filiformi-hamatis, 25-30 ≈ 1, hyalinis, basidiis acicularibus simpliciter verticillatis, 15-20 ≈ 2, hyalinis suffultis, in cirros flavo-roseos protrusis.

Hab. in ramis Robiniæ Ulmi et Pruni in Italia et Gallia.

2. Cytosporina Siliquastri (West.) Sacc. Dumortiera Siliquastri West. 3264 Not. VIII. p. 6. Kickx Fl. crypt. Fl. I. p. 447. — Stromate effuso, Eutypæ scabrosæ analogo; peritheciis sphæricis, nigris, stromato ligneo immersis, ostiolis brevibus, papillatis; sporulis filiformibus, utrinque attenuatis, vehementer curvatis, hyalinis, 15 ≈ 1,5; cirro flavo-carneo.

Hab. in ligno denudato Cercidis Siliquastri in Belgio (Westendorp).

3. Cytosporina rostrata (West.) Sacc. Dumortiera rostrata West. 3265 Not. V. p. 29, tab. I. f. 14. — Stromate effuso, atro; peritheciis immersis, ostiolis rostratis; sporulis fusoideo-bacillaribus semilunari-arcuatis, utrinque attenuatis, 3-4-guttulatis, in cirres carneos, tortuosos dein ejectis.

Hab. in ligno putri Robiniæ (?) pr. Mons in Hollandia.

4. Cytosporina millepunctata Sacc. Cryptosphæriæ millepunctatæ 3266 st. spermog. Nits. Pyr. Germ. p. 160, Sacc. Syll. I. p. 182. — Stromatibus subglobosis, minutis, subunilocularibus, pallidis, sparsis, subcutaneis; sporulis subsessilibus, filiformi-cylindricis, longis hyalinis, varie curvatis, tandem in cirros pulchre roseos v. luteos protrusis. 40-48 ≈ 1.

Hab. in ramis emortuis Fraxini excelsioris in Germania.

5. Cytosporina myriocarpa Sacc. Cryptosphæriæ myriocarpæ st. 3267 sperm. Nits. Pyr. Germ. p. 159. Sacc. Syll. I. p. 183. — Stromatibus cavernulas sistentibus minutissimas, simplices, suborbiculares vel ellipticas, pallidas sub peridermio translucido cortici vel stromati juniori immersis, sparsis; sporulis filiformibus, exilissimis, utrinque acutiusculis, hyalinis, curvulis, subsessilibus, $24 \approx 1$.

Hab. in ramis exsiccatis Fagi silvaticæ prope Münster Germaniæ.

6. Cytosporina stellulata Sacc. Eutypellæ stellulatæ st. sperm. Nits. 3268 Pyr. Germ. p. 165. Sacc. Syll. I. p. 149. — Stromatibus multilocularibus, valsoideis, crustæformibus; sporulis filiformi-cylindricis, curvatis, 20-25 µ. longis, tandem in cirros aureos protrusis.

Hab. in ramis Ulmi campestris et U. effusæ in Suecia et in Germania.

Cytosporina cerviculata Sacc. F. V. Ser. IV. p. 16 (Cytospora) 3269
 Eutypellæ cerviculatæ st. sperm. Sacc. l. c. et Syll. I. p. 146.
 — Stromatibus valsoideis, extus nigris, rugosis (non vero ostiolatis) intus fusco-rubescentibus, minute plurilocularibus, loculis subglobosis; sporulis filiformibus, arcuatis, 20-22 ≥ 0,7, sterigmatibus cylindraceis sursum attenuatis 20 ≥ 1 fasciculatis suffultis, tandem in cirros rubellos protrusis.

Hab. in ramis crassioribus Carpini Betuli in Italia bor.

8. Cytosporina milliaria Sacc. Eutypæ milliariæ st. sperm. Nits. Pyr. 3270 Germ. 149. — Stromatibus minutissimis, punctiformibus, pallidis, subglobosis; unilocularibus, ligni strato supremo leviter immersis, tandem poro vel rimula apertis; sporulis filiformibus, varie curvatis, 24 ≈ 1.

Hab. in ligno duriore Quercus, Fagi, Staphyleæ in Suecia et Germania.

 Cytosporina aspera (Wallr.) Sacc. Cytospora aspera Wallr. Fl. 3271 crypt. 751 (?) Sacc. Mich. II. p. 264. — Stromatibus subcutaneis, corticem nonnihil elevantibus, vix perforantibus, subcircularibus, plurilocularibus, nigris; sporulis cylindraceis leniter curvis, $18-20 \approx 1^{1}/_{2}$, hyalinis, quandoque 1-2-guttulatis, basidiis brevibus, teretibus fasciculatis suffultis; cirris non visis.

Hab. in ramis corticatis Fagi silvaticæ in silva Cansiglio Ital. bor. et in Germania. — Diatrypes disciformis aut Diatrypellæ asperæ probabile spermogonium.

10. Cytosporina Ailanthi Sacc. Mich. II. p. 265 (Cytospora). — Stro- 3272 matibus plurilocularibus, nigris, stromate ligneo nigro-limitato insidentibus corticeque obvelatis; sporulis filiformi-curvatis, $15 \approx \frac{1}{2}$, hvalinis, demum in cirros aureos capillares intricatos protrusis.

Hab. in ramis Ailanthi, Selva, Padova Ital. bor. — Eutypellev Ailanthi st. sperm. Sacc. Syll. I. p. 157.

11. Cytosporina heteracantha Sacc. Mich. II. pag. 344 (Cytospora). 3273 — Stromatibus subunilocularibus, intus pallidis, sub epidermide elevata nidulantibus, globosis, sursum fasciculos hypharum (ut perithecia ascophora) emittentibus; sporulis filiformibus, 20-25 ≈ 1, arcuatis, hyalinis sterigmatibus brevibus fasciculatis fultis.

Hab. in ramis corticatis Juglandis regiæ, Salicis etc. in Italia boreali et Gallia. — Eutypæ heteracanthæ st. sperm. Sacc. Syll. I. pag. 177.

12. Cytosporina juglandicola Sacc. Mich. II. p. 263 (Cytospora). — 3274 Stromatibus atris subcutaneis epidermide tumidula, denique fissa tectis, plurilocularibus, nucleis roseo-flavis; sporulis filiformi-hamatis $20 \approx \frac{3}{4}$, copiosissimis, in cirros dilute flavos elongatos tortos denique protrusis, sterigmatibus filiformibus ramosis simplicibusve, 30-50 μ . longis suffultis.

Hab. in ramis corticatis Juglandis regiæ, Padova Ital. bor.

13. Cytosporina peregrina (M. et Fr.) Sacc. Sphæria peregrina M. 3275 et Fries. Not. in Ann. Sc. nat. II. 1. p. 340, t. 11, f. 4. — Obtecta, sparsa, raro confluens; peritheciis cylindrico-conicis truncatis, atris opacis, spiraliter plicato-striatis, epidermide adnata tectis, ostiolo tandem poro pertuso; sporulis filiformi-linearibus curvulis.

Hab. in ramis Broussonetiæ papyriferæ pr. Lyon Galliæ.

14. Cytosporina Fusarium (Niessl) Sacc. Cytospora Fusarium Niessl 3276

Mähr. Crypt. Fl. p. 41. — Stromatibus gregariis, conicis; peritheciis lageniformibus, ostiolis longis stromate immersis; sporulis longissime fusoideis exilibus, curvis flexuosisque, acutis, 36-48 ≥ 1,6, hyalinis, 5-7-guttulatis.

Hab. in ramis emortuis Populi pr. Brünn Moraviæ.

15. Cytosporina leucomyxa (Corda) Sacc. Cytospora leucomyxa 3277 (Corda) Rabenh. Deutsch. Crypt. Fl. n. 1341. Næmaspora leucomyxa Corda Ic. III. p. 27, fig. 71. - Pustulis gregariis, stromate atro partito, pseudostromate fusco; peritheciis carnosulis albis, paraphysibus catenulatis; sporulis longissimis curvatis, utrinque rotundatis hyalinis, pluriguttulatis, 62-74 = 4-5.

Hab. in ramis putrescentibus arborum frondosarum in Bohemia.

- MICULA Duby in Hedw. 1858, n. l., Sacc. Mich. II. p. 6 (Etym. a micula, ob parvitatem). - Perithecia erumpenti-subsuperficialia. discreta, gregaria, globoso-conica, subsuberosa. Sporulæ filiformes. curvulæ, continuæ, pluriguttulatæ hyalinæ, basidiis brevibus suffultæ. - Microperæ nimis affinis illique aptius forte subjungenda.
- 1. Micula Mougeotii Duby in Hedw. 1858, n. 1, t. I. f. A 1-8. Sphce- 3278 ria Micula Fr. Elench. II. p. 101. - Erumpens; peritheciis globosis pruinatis, albo-pallescentibus, ostiolo fuscescente; sporulis fusoideo-bacillaribus, 46 = 2-2,3 curvulis v. sigmoideis breve stipitatis.

Hab. in ramis languescentibus Rhamni alpini in Germania. Gallia, Helvetia. - Pycnidium Cenangii Morthieri Fuck. - Sparsa, erumpens, sed non valde prominens, minuta, puncto vix major, sub lente vero luculenter extus albido-pallescens, intus concolor, subfarcta; nucleo centrali atro. Ostiolum papilliforme, impressum, vel prominulum, fuscum.

2. Micula Alni Sacc. et Briard. — Peritheciis laxe gregariis, innato- 3279 erumpentibus, globulosis, papillulatis, sordide roseis, facile secedentibus; sporulis fusoideis, utrinque acutis, curvatis, 45-50 = 3, pluriguttulatis, hyalinis.

Hab. in ramulis corticatis Alni glutinosæ prope Troves Galliæ (BRIARD).

MICROPERA Lév. Ann. Sc. nat. 1846, p. 283, Sacc. Mich. II. p. 6. (Etym. micros parvus, et pera saccus). — Perithecia erumpentisuperficialia, sæpius dense cæspitosa, suberoso-coriacea, sæpe furfuracea, globoso-conica vel subelongata, ostiolo spurio. Sporulæ fusoideo-filiformes, flexuosæ v. arcuatæ, pluriguttulatæ, hyalinæ, basidiis brevibus suffultæ. - Pycnidia, ut videtur, Cenangiorum.

1. Micropera rubida B. et C. North Amer. Fungi n. 465. — Trans- 3280

versim erumpens, rubida; sporulis filiformibus longissimis plasmate hinc inde interrupto.

Hab. in ramis Cerasi in Pensylvania Amer. bor. (MICHENER).

2. Micropera Drupacearum Lév. Ann. Sc. nat. III. 5, pag. 283. M. 3281 Cerasi Sacc. Myc. Ven. p. 160, t. XVII. f. 13-15. - Peritheciis pustulatis, innatis, conico-subcylindraceis, pro mutua pressione difformibus rufo-fuscis; ostiolo albido; sporulis anguste cylindraceofusoideis, curvatis v. contortis, $50 \approx 3$, hyalinis, nucleo transverse multipartito.

Hab. in ramis emortuis Cerasorum et Prunorum in Britannia, Italia, Gatlia, Gorizia et America boreali. - Pycnidium Cenangii Cerasi Fr.

3. Micropera Cotoneastri (Fr.) Sacc. Sphæria Cotoneastri Fr. in 3282 Kunze Myk. Heft. II. p. 46. - Gregaria, inter epidermidis membranas incusa, erumpens; peritheciis subovatis, globiferis, nigris, collabascendo depressis inæqualibus.

Hab. ad corticem Cotoneastri et aliarum arborum e familia Rosacearum in Germania et Suecia. - Forma valde inconstans, sed situ facile dignoscitur. Junior mollis, globulo instructa subfusca, dein pertusa, demumque rimose dehiscens. Intus nigra, prominens.

4. Micropera padina (Pers.) Sacc. Mich. II. p. 104. Sphæria padina 3283 Pers. in Moug. et Nestl. Exs. n. 667. - Peritheciis subsolitariis, ferrugineis, apice nigrescentibus, conico-umbilicatis, dein subpezizoideis; sporulis cylindraceo-fusoideis, 25-30 = 31/3-4, hyalinis, basidiis brevioribus, filiformibus suffultis.

Hab. in ramis emortuis Pruni Padi in Vogesis. - Ut svnonymon Sphæronæmatis brunneo-viridis a quibusdam habetur, sed satis differt. Cfr. Svll. III. p. 186.

5. Micropera Sorbi (Fr.) Sacc. Mich. II. p. 628. Sphæria Cotoneastri 3284 β. Sorbi Fr. S. M. II. p. 494 Micropera Drupacearum (in Sorbo) Lév. - Peritheciis (spuriis) laxe gregariis, erumpentibus, globoso-depressis; sporulis fusoideis utringue acutis, curvulis 15-16 = $1\frac{3}{4}$ -2, hyalinis, basidiis verticillato-ramosis $20-25 \approx 2\frac{1}{2}$ suffultis, strato sporigero fusco-violaceo.

Hab. in ramis corticatis Sorbi Aucupariæ in Arduennis (LIBERT). - Sec. Fuck. pycnidium est Cenangii inconstantis (Fr.).

6. Micropera betulina Sacc. et Roum. Sacc. Mich. II. p. 628. — Pe- 3285 ritheciis (spuriis) laxe gregariis, cortice nidulantibus et vix erumpentibus globulosis, nucleo farcto; sporulis fusoideis, rectiusculis

utrinque obtuse attenuatis, $18-20 \approx 3$, hyalinis, basidiis simpliciter v. bis dichotome ramosis, $30-35 \approx 2-3$ suffultis.

Hab. in cortice Betulæ in Arduennis (LIBERT). — Prob. py. cnidium cujusdam Cenangii.

7. Micropera decorticans Lév. Ann. Sc. nat. 1848, p. 254. — Peri- 3286 theciis gregariis innatis, subcarnosis, conicis, basi applanatis, levibus, lutescentibus, epidermide rupta cinctis; sporulis rectis lineari-fusoideis, utrinque acutis, pellucidis, nucleatis.

Hab. in ramis Ilicis Aquifolii in Vogesis.

8. Micropera roseola Lév. Ann. Sc. nat. 1846, p. 283. — Perithe. 3287 ciis innatis, confertis, elongatis v. globosis basi liberis, ostiolis transversim erumpentibus, subvillosis, roseolis; sporulis fusoideis, arcuatis.

Hab. in cortice Cerasorum in Gallia. — «Videretur forma subsparsa Micr. Drupacearum.»

9. Micropera tenella Sacc. et Ell. Sacc. Mich. II. p. 573. — Peri- 3288 theciis dense gregariis, subsuperficialibus, lateritiis, globosis, vix papillatis, denique collabascentibus, contextu cellulari, olivaceo-rufescente; sporulis bacillaribus, curvulis, 25-30 ≈ 2, continuis, hyalinis (humiditate exsilientibus); basidiis obsoletis.

Hab. in certice interiore Thujæ, Newfield N. J. Americæ borealis (Ellis).

- 10. Micropera Pinastri (Moug.) Sacc. Mich. II. p. 104. Cenangium Pi-3289 nastri Moug. Stirp. Vog. Fr. S. M. II. p. 184. Fr., Erb. crittog. ital., nec Auct. recent. Dothichiza Pinastri Lib. in Roum. Rev. My-col. Peritheciis erumpenti-cespitosis, globoso-conicis, piceis, nitidis, duriusculis, apice dein apertis; sporulis fusoideo-falcatis, 50-60 ≈ 5-7, pluriguttulatis, hyalinis, basidiis bacillaribus multo brevioribus fultis.
- IIab. in cortice Pinorum in Gallia, Germania, Italia, frequens.

 11. Micropera Taxi Sacc. Mich. II. p. 539. Peritheciis erumpentisuperficialibus, gregariis v. hinc inde aggregatis, ¼-¼- miII. diam.,
 fuscescentibus, globosis apice obtusiusculis, pertusis; contextu subsinuoso-parenchymatico, ochraceo; sporulis fusoideo-acicularibus
 curvis v. tortuosis, utrinque acutis 50-60 ≈ 3,5-4,5, 5-7-guttatopseudoseptatis, non constrictis, hyalinis; basidiis acicularibus brevibus e basi sporigera lutescente oriundis.

Hab. in cortice Taxi baccatæ, Conegliano Italiæ borealis (Spegazzini).

REPERTORIUM

SPHÆRIOIDEARUM SCOLECOSPORARUM

SECUNDUM MATRICES

Obs. C. indicat Cornularia. — Cy. Cytosporina. — D. Dilophospora. — E. Eriospora. — G. Gelatinosporium. — M. Micula. — Mo. Micropera. — P. Phleospora. — Pa. Phlyctwna. — R. Rhabdospora. — S. Septoria. — Sm. Sphwrographium.

N. 2254 — 2999 citantur 554 — 999 N. 3001 — 3290 citantur 1 — 290

Abies — S. 737, 32, — R. 179, — Pa. 1 242. — C. 252. Acanthus - S. 903. Acer - S, 571, 572, 573, 574, 575, 576. P. 135.R. 168. Achillea - S. 973. Aconitum -- S. 849, 850. Adenophora — S. 953. Adoxa — S. 945. Egopodium - S. 870, 871, 872. Esculus — S. 577, 578, 579, Ætheorrhiza - S. 994. Agave — S. 109. Agropyrum — S. 40. Ailanthus - Cy. 272. Alisma — S. 93, 94, 95. Allium - S. 104, 105, 106. Alnus — S. 734, 735, 736, — R. 170. - M. 279. Aloe - S. 110. Alopecurus — S. 51. — D. 261.

Althea — S. 791, 793, — R. 193.

Andromeda — S. 663.

Andropogon - S. 59.

Anemone - S. 820, 829. Angelica - R. 199. Anoda - S. 559. Anthriscus — S. 877. Antirrhinum — R. 195. Apium - R. 200. Aplotaxis — S. 972. Apocynum -- S. 938. Aquilegia — S. 851. Arabis — S. 813. — R. 196. Arauja — S. 939, 940. Arbutus - S. 661. Arisarum - S. 84. Aristolochia - S. 23. Armoracia — S. 814. Arnica — S. 971. Artemisia — S. 970. Artocarpus — S. 698, 699. Arum — S. 85. Arundo — S. 60. 61. 65. 66. Asarum - S. 24. Asphodelus — S. 93. Aster — S. 981. Astragalus — S. 748.

Atriplex - S. 14. Aucuba - S. 650. Azalea - Sm. 246.

Baccharis - S. 962. Balsamina — S. 784. Baptisia - S. 749. Barkhausia - R. 200. Bellis — S. 975, 976. Berberis - S. 556. Berteroa - S. 815. Beta — S. 13. Betula — S. 730. 731. 732. 733. — R. 186. — Pa. 241. — Sm. 249. — Mo. 285. Bidens - S. 969. Bowlesia - S. 879. Brachychiton - S. 563. Brachypodium - S. 42. 51. 54. 55. 57. 68. Bromus - S. 51. 54. 68. Broussonetia - R. 173. - Cy. 275. Bryonia - S. 860. Buffonia - Pa. 230. Buddleja - S. 685. 686. Bumelia - S. 666.

Calamagrostis — S. 53.

Calla — S. 86.

Calycanthus — S. 639.

Campanula — S. 947.

Cannabis — S. 19.

Capparis — S. 826.

Cardamine — S. 818.

Carex — S. 70. 71. 72. 73. 74. 75. 76.

— E. 260.

Carpinus — R. 169. — Cy. 269.

Castanea — S. 720. 721. 722. 723. —

Sm. 245.

Catalpa — S. 25.

Celtis — S. 693. 694.

Centaurea — S. 989.

Centranthus - R. 220. 221.

Cephalanthus - R. 166.

Bupleurum - S. 868. 869.

Buxus — S. 691.

Cerasus — C. 254. — Mo. 280. 281. 287. Cerastium - S. 808. Ceratonia - S. 606. Cercis — S. 607. 608. — Cy. 264. Cestrum - S. 687. Chærophyllum - R. 199. 204. Cheiranthus - S. 823. Chelidonium - S. 827. Chelone - S. 892. Chenopodium - S. 14. 15. Chlora - R. 211. Chionanthus - S. 678. Cichorium — S. 990. 991. Cirsium — S. 985. 987. — R. 218. Citrus — S. 564. 565. 566. 567. 568. 569. 570. — R. 157. 158. — Pa. 238. Clematis - S. 841. 842. 843. 844. 845. 846. - R. 198. Colchicum - S. 96. Convallaria - S. 113. 114. 115. Convolvulus — S. 909, 910. Coptis — S. 853. Coriaria — S. 584. Cornus - S. 651, 652, Coronilla - \$. 613. Corylus — S. 717. 718. — R. 168. Corynocarpus - S. 558. Cotoneaster - Mo. 282. Cratægus — S. 620. — P. 139. Cucurbita - S. 860. 33. Cuphæa - S. 779. Cyclamen - S. 889. Cyclanthera — S. 861. Cydonia — S. 621. 622. — R. 153. Cynanchum — S. 779. 935. 937. — R. 212. Cynara - S. 983. Cynodon - S. 50. Cytisus — S. 611. 612. — P. 146.

Daphne — S. 689.

Datura — S. 906.

Delphinium — S. 847. 848.

Deutzia — S. 640.

Diapensia — S. 859.

Dictamnus — S. 787.

Digitalis — S. 900. Dipsacus — S. 1. 2.

Dianthus - S. 795. 796. 801. 802. 803.

- R. 207.

Dolichos — S. 753. 754. Doronicum — S. 972.

Dracocephalum - S. 926.

Drymis - S. 614.

Dupontia - S. 36.

Elæagnus - S. 690.

Ephedra - R. 180. 181. 182.

Epilobium - S. 780. 781.

Epipactis — S. 124.

Equisetum — S. 128. 129.

Eranthis - S. 831.

Erigeron - S. 963. 964.

Eryngium - S. 883.

Erysimum - S. 822.

Erythronium — S. 111.

Eucalyptus — S. 641. 642.

Eupatorium — S. 959.

Euphorbia — S. 788. 789. 790. — R. 191. 192.

Evonymus - S. 594. 595.

Excæcaria - S. 709.

Fagus — S. 719. — R. 171. — Cy. 267. 270. 271.

Festuca — Q. 42. 47. — D. 261.

Ficaria — S. 833. 834.

Ficus -- S. 695, 696, 697.

Fæniculum - R. 205.

Fragaria - S. 768.

Fraxinus — S. 669. 670. 671. 672. —

R. 161. 162. — Sm. 250. — Cy. 266.

Fuchsia - S. 778.

Galeopsis — S. 923.

Galinsoga -- S. 982.

Galium - S. 941, 942, 943, 944.

Garrya - S. 701.

Genista - R. 142, 143.

Gentiana - S. 931, 932,

Geranium — S. 785, 786, — D. 262,

Geum - S. 763. - R. 199.

Gladiolus — S. 122.

Globularia — S. 912.

Glyceria - S. 42.

Gnaphalium - R. 218.

.Gossypium — S. 794. — Pa. 232.

Graminaceæ - S. 63. 67.

Gratiola - S. 897.

Gymnadenia - S. 125.

Hedeoma - R. 209.

Hedera - S. 642. 644. 645. 646.

Helleborus — S. 840. — R. 197.

Helianthus - R. 217.

Hepatica - S. 830.

Heracleum — S. 864. — R. 202. 203.

Heterothalamus - R. 145.

Hibiscus — S. 560. 561.

Hieracium - S. 998.

Hippophaë - S. 688.

Holcus - S. 52.

Hordeum - S. 35.

Hosackia - S. 750.

Hoya - S. 963.

Humulus - S. 20.

Hydrocotyle - S. 880. 881. 882.

Hypericum - S. 791.

Iaborosa - S. 643.

Iasminum — S. 657. 668.

llex — S. 598. 599. 600. — Sm. 248.

- Mo. 286.

Impatiens — S. 783.

Inula - S. 965.

Iresine - S. 16.

Iris - S. 123.

Iuglans — S. 703. 30. 31. — R. 172.

- Cy. 273. 274.

Iuncus - S. 87.

Iussiæa - S. 776, 777.

Kalmia — S. 692.

Kœleria - S. 39.

Lactuca - S. 992. 993.

Lamium - S. 915. 916.

Lathyrus — S. 759, 760, 761, 762,

Lappa - S. 988. - Pa. 233.

Lavandula - S. 914. Leersia - S. 45. Lepidium - S. 816. 817. Leucanthemum - S. 977. 978. Leycesteria - S. 656. Ligustrum - S. 680. 681. Ligusticum - S. 878. Linaria - S. 901, 902. Liquidambar - S. 704. Listera - S. 126. Lobelia - S. 886. Lolium - S. 35. Lonicera — S. 653. 654. — P. 150. -R. 159. 160. — Sm. 243. 244. Lophanthus - S. 918. Ludwigia - S. 775. Lupinus - S. 751. Lychnis - S. 804. 805. - R. 195.

Lycopus - S. 928.

Lysimachia - S. 890.

Lythrum - S. 773. 774.

Magnolia — S. 554, 555, — P. 148. Mahonia - S. 557. Maianthemum - S. 116. Malva - S. 917. Marsdenia - S. 937. Martinezia - S. 127. Matthiola — S. 821. Medicago — S. 747. — R. 188. 218. Melianthus - S. 583. Melica - S. 37. 38. Melissa - S. 921. Melittis - S. 922. Menispermum - S. 11. Mentha - S. 919. 920. Menyanthes — S. 887. Mercurialis - S. 21. Mespilus - S. 623. Micropera - Sm. 251. Molinia - S. 58. Morus - P. 136. 137. Mulgedium - S. 957.

Nabalus — S. 966. — Pa. 235. Nasturtium — S. 820. Neg undo — R. 167. Nerium — S. 682. 683. — R. 164. Nyssa — C. 256.

CEnothera — S. 782.
Olea — S. 675. 679. 29.
Onoclea — S. 130.
Orchis — S. 126.
Origanum — R. 210.
Ornithogalum — S. 100. 101.
Orobus — S. 757. 758.
Oryza — S. 48. 49.
Ostrya — S. 716.

Pæonia — S. 854. 855. 856. Paliurus - S. 596. Panicum - S. 68. Paris - S. 117. Passiflora - S. 27. Pastinaca — S. 866. 867. Paulownia — S. 684. — R. 165. Pedicularis - R. 207. Pelargonium - R. 190. Pentastemum — S. 899. Persica - P. 152. - C. 255. Petroselinum - S. 876. Peucedanum - S. 865. Phalaris - S. 51. Phaseolus - S. 34. Phillyrea - S. 674. 676. 677. Phlox - S. 893. Photinia - S. 638. Phragmites — S. 60. 62. 63. 64. Phyteuma — S. 951. 952. Phytolaeca — Pa. 226, 227, 228. Pilea - S. 22. Pinus — S. 738. — R. 177. 178. — C. 253. — Mo. 289. Pircunia - S. 7. Pirola -- S. 885. Pirus — S. 624. 625. 626. — \$. 28. Pistacia - S. 60!. Pisum - S. 755. 34. - R. 189. Plantago - S. 917. 4. 5. 6. - R. 222. Platanthera - S. 126. Platanus - S. 702. Poa - S. 56. Podocarpus - S. 739.

Polygonum — S. 8. 9. — Pa. 229.

Podophyllum — S. 852.

Polemonium — S. 908.

Polygala — S. 824. 825.

Polygonatum — S. 114.

Polytrichum — S. 133.

- Populus — S. 712. 713. 714. 715. — R. 174. — Pa. 237. — C. 258. — Cy. 276.

Potentilla — S. 764, 765, 766, 767, — Prunus — S. 629, 630, 631, 632, 633, 634, 635, 636, 637, — Cy. 263, —

Mo. 281. 283. Pteris — S. 131.

Pulmonaria - S. 911.

-Quereus - S. 724, 725, 726, 727, 728, 729.

Kanunculus — S. 835, 836, 837, 838, 839, — C. 199,

Rhamnus — S. 586, 587, 588, 589, 590, 591, 592, 593, — M. 278.

Rheum - S. 10. - R. 223.

Rhipogonum - Pa. 239.

Rhododendron — S. 662. — Sm. 247. Rhus — S. 602. 603. 604. 605.

Rhynchospora - S. 88.

Ribes — S. 647. 648. 649. — R. 140. Robinia — S. 609. 610. — P. 147. —

C. 255. — Cy. 263. 265.

Rosa — S. 615. 616. 617. Rosaceæ — Mo. 282.

Rubia — R. 213.

Rubus — S. 619. — P. 151.

Salix — S. 705, 706, 707, 708, 709, 710, 711, — R. 175, 176, — Pa. 238, — Cy. 273.

Salpichroa - S. 907.

Salvia — S. 927.

Sambucus — S. 655. 946.

Saponaria — S. 797.

Saussurea — S. 968

Saxifraga — S. 857.

Scabiosa — S. 999. — R. 219. Scandix — R. 201. 206. Scilla - S. 102.

Scirpus - S. 77. 78. 79. 80. 81. 82. 83.

Scleranthus - S. 810.

Sclerochloa - S. 46.

Scleropus - S. 17.

Scolopendrium - S. 132.

Scolymus - S. 984.

Scrophularia - S. 898.

Scutellaria — S. 924.

Sedum — S. 858.

Senecio - S. 979, 980. - Pa. 236.

Seseli - S. 874.

Silene - S. 797. 798. 799. 800.

Sison - S. 875.

Sisymbrium - S. 819.

Sium - S. 873.

Smilax — S. 120. 121. — Pa. 240.

Soja - S. 752.

Solanum — S. 904. 905. — R. 218.

Soldanella — S. 888.

Solidago — S. 960. 961. — R. 199, 215.

216. — Pa. 284.

Sonchus - S. 995. 996. 997.

Sorbus — S. 627. 628. — P. 149. — Mo. 284.

Sparganium - S. 92.

Spartium — S. 26. — R. 144.

Specularia — S. 948. 949. 950.

Spergula — S. 809.

Spinacia — S. 12. Spiræa — S. 618. 770. 771. 772.

Stachys - S. 925.

Staphylea — S. 585. — Cy. 270.

Stellaria — S. 806. 807.

Succisa — S. 3000.

Symphoricarpus — Pa. 231.

Symplocos — S. 664. 665.

Syringa - S. 673.

Tamus — S. 118. 119. — Pa. 226.

Tanacetum — S. 958.

Taxus — Mo. 290.

Teucrium — S. 929. 930.

Thuja — Mo. 288.

Tilia — S. 562.

Tormentilla — S. 766.

Trianospermum — S. 862.

Repertorium

Trientalis — S. 891.
Trifolium — S. 746. — R. 187.
Trillium — S. 112.
Triticum — S. 41. 42. 43. 44. 68.
D. 261.
Trollius — S. 832.
Tunica — R. 194.
Tussilago — S. 954. \$55. 956.

Ulmus — P. 138. — Pa. 231. — Cy. 263. 268. Umbelliferæ — S. 863. Urginea — S. 103. Urtica — S. 18.

Typha — S. 89. 90. 91. — E. 260.

Vaccinium — S. 658. 659. 660. Veratrum — S. 97. Verbascum — S. 894. Verbena — S. 913. — R. 208. Veronica — S. 895, 896. Viburaum — S. 657. — R. 163. — C. 259. Vicia — S. 756. Villarsia — S. 933, 934. Viola — S. 811, 812. Viscum — S. 884. Vitis — S. 580, 581, 582. — R. 154. 155, 156, 157.

Waldsteinia — S. 769. Wahlenbergia — R. 214. Wyethia — S. 967.

Yucca — S. 107. 108.

Xanthium - S. 3.

Zea — S. 69. Zizyphus — S. 597.

Fam. 2. Nectrioidese Sacc.

Perithecia et stroma (ubi adest) carnosula v. ceracea, læticoloria (albida, flava, rubra, aurantiaca) globulosa v. rarius hysterioidea v. subcupulata. Sporulæ variæ, hucusque hyalinæ. — Formæ, ut plurimum, metageneticæ *Hypocreacearum*.

Clavis analytica generum.

Subcohors I. Zythieæ Sacc. Perithecia subglobosa, sphæriæformia.

Sect. 1. Hyalosporæ Sacc.

Sporulæ globosæ, ovoideæ v. oblongæ, continuæ, hyalinæ.

I. Perithecia e tunicâ simplici composita.

A) Simplices.

§ Perithecia erostria.

Zythia. Perithecia globulosa, subpapillata, glabrescentia, epiphyta.

Collacystis. Perithecia globulosa, pilosa, epizoa.

Roumeguèriella. Perithecia irregulariter dehiscentia; sporulæ muriculatæ (initio catenulatæ sec. Cooke).

Libertiella. Perithecia ostiolo amplo, crateriformi, discolori instructa; sporulæ leves.

§§ Perithecia rostrata.

Sphæronæmella. Est quasi Sphæronæma carnosulum, læticolor.

B) Compositæ.

Aschersonia. Stroma verruciforme vel turbinatum, intus pluri-locallatum. Est quasi Hypocrea basidiospora.

II. Perithecia e tunica duplici composita.

Dichlæna. Perithecii vitellini tunica exterior tandem circumscissa.

Sect. 2. Didymosporæ Sacc.

Sporulæ ellipsoideæ v. oblongæ, 1-septatæ, subhyalinæ.

Pseudodiplodia. Perithecia ceraceo-carnosula, mox ore lato aperta. Sporulæ dilute olivaceæ.

Sect. 3. Phragmosporæ Sacc.

Sporulæ oblongæ v. fusoideæ v. breve cylindraceæ, 2-pluriseptatæ, hyalinæ.

Stagonopsis. Sporulæ oblongo-fusoideæ, 2-pluriseptatæ, indivisæ.

Chiastospora. Sporulæ decussato-4-radiatæ, radiis cylindraceis, inæqualibus, septatis.

Sect. 1. Scolecosporæ Sacc.

Sporulæ filiformes v. bacillares, continuæ v. pluriseptatæ, hyalinæ.

Polystigmina. Stroma disciforme, convexulum, rubro-aurantiacum, intus pluriloculare. Sporulæ filiformi-hamatæ.

Subcohors II. Patellineæ Sacc.

Perithecia subcupulata v. subhysterioidea.

Hysteromywa. Perithecia (genuina?), applanata, oblonga, rimose v. substellatim hiantia, glabrescentia.

Patellina. Perithecia patellari-cupulata, pezizoidea, glabrescentia. Cyphina. Perithecia subcupulata, pilis longis albidis vestita.

- **ZYTHIA** Fr. Summa p. 407, ex p. (Etym. a zijo vel zeo scateo, forte ob sporulas exsilientes), *Phomopsis* Sacc. Mich. II. p. 272. Perithecia erumpentia vel subsuperficialia, globulosa, plus vel minus distincte papillata, ceraceo-molliuscula, albida, rosea, rufula vel aurantiaca. Sporulæ ovoideæ vel oblongæ, continuæ, hyalinæ, basidiis variis fultæ. Habitus *Nectrice* quacum sine dubio metagenetice connectitur.
- 1. Zythia aurantiaca (Peck) Sacc. Sphæronæma aurantiacum Peck 3291 Rep. St. Mus. N. York t. II. f. 9-11. Peritheciis minutis erumpentibus, hemisphæricis vel subconicis subinde ostiolo leniter papillato, aurantiacis; sporulis oblongo-ellipsoideis, hyalinis 7-10 u. long., in globulum carneolum terminalem denique coactis.

Hab. in cortice Corni alternifoliæ, Bethlehem Amer. bor. C. Zythia citrinella (Lév.) Sacc. Sphæropsis citrinella Lév. Ann. Sc. 3292
Nat. p. 62. — Hypophylla sparsa; peritheciis globosis, aurantiacis, stromate subgloboso carnoso flavo, basi fibrilloso radiato insidentibus, ostiolis papillatis; sporulis fusoideo-elongatis, hyalinis.

Hab. in foliis deciduis Myrtaceæ ignotæ in insula Java.

3. Zythia Versoniana Sacc. Mich. II. p. 272 (Phomopsis). — Peri- 3293 theciis dense gregariis, innato-erumpentibus, globulosis, subastomis, rufescentibus, ½ mill. d., contextu parenchymatico interne rufescente, externe olivaceo-ochraceo; sporulis fusoideis, 18-20 = 2-4, hyalinis, basidiis bacillaribus fasciculatis, 18-20 = 1½, suffultis.

Hab. in fructibus immaturis dejectis Punicæ Granati, Torreglia Padova Italiæ bor., sociá Nectriella Versoniana, cujus certe spermogonium.

Zythia annularis (B. et Br.) Sacc. Sphæropsis annularis B. et 3294
 Br. Cub. Fungi n. 792. — Lateritia; peritheciis centro depressis; sporulis subcuneiformibus, 12 μ. longis.

Hab. in ligno putri in insula Cuba. — Habitus omnino Nectrice

collapsæ.

5. Zythia Mercurialis (Lib.) Kickx Fl. Crypt. Fl. I. p. 449, Spharo. 3295 nama Mercurialis Lib. Exs. n. 264. — Peritheciis sparsis v. aggregatis, sordide flavis, dein ferrugineis, tandem brunneo-nigricantibus, globulosis, poro pertusis; sporulis oblongis v. ovoideis perexiguis mox in globulum luteolum ejectis.

Hab. in foliis, petiolis caulibusque Mercurialis perennis in Belgio et Arduennis.

6. Zythia Brassicæ Sacc. et Roum. Reliq. Libert. Ser. IV. n. 120. 3296 — Peritheciis superficialibus densissime gregariis, globoso-inæqualibus, ostiolo obsoleto, flavo-mellis, ½ mill. d., contextu laxe et indistincte parenchymatico, subochraceo; sporulis elongato-teretibus, 10-11 = 2,5-3, hyalinis; basidiis non visis.

Hab. in cortice interiore Brassicæ putrescentis in Arduennis (Libert). — Forte Nectriellæ Keithii spermogonium.

7. Zythia elegans Fr. Summa p. 408, Perisporium elegans Fr. Scl. 3297 Suec. n. 460, Sphæronæma elegans De Not. Micr. it. Dec. III. n. 8. — Peritheciis gregariis subcutaneo-erumpentibus, globoso-conoideis, obtusis, poro pertusis, siccitate collabascendo umbilicatis, initio subcarneis, tandem fuscis; sporulis cylindraceis, subinde leniter curvis, chlorino-hyalinis, sessilibus, utrinque truncatis, mox cirrose expulsis, 6-7 ≈ 1,4.

Hab. in caulibus herbarum majorum in Suecia et Italia.

8. Zythia leucoconia (B. et Br.) Sacc. Sphæronæma leucoconium B. 3298 et Br. Ann. N. H. n. 405. — Gregaria; peritheciis hyalinis, planoconvexis, depressis, satis irregularibus, simpliciter pertusis, muticis, subiculo ramoso-floccoso albo insidentibus; sporulis minutis, ellipsoideis.

Hab. in radice corrupta Betæ, King 's Cliffe Britanniæ.

9. Zythia Rhinanthi (Lib.) Fr. Summa Veg. p. 408, Kickx Fl. crypt. 3299 Fl. I. p. 447, Sphæronæma Rhinanthi Lib. Exs. n. 263. — Peritheciis sparsis, nigris, globoso-depressis, non papillatis; globulo sporaceo minuto albo.

Hab. in caule capsulisque Rhinanthi Cristæ-galli in Belgio et Arduennis. — Habitus Phomæ complanatæ. «Si perithecia jugiter nigra, an potius Phomæ species?».

Nectrioldeæ, Zythieæ, Hyalosporæ, Libertiella.

10. Zythia compressa Schw. Syn. Amer. bor. n. 2130. — Sparsa et 3300 gregaria; peritheciis parabolico-conicis subcompressis, spadiceis, subdiaphanis; globulo spermatico candido, demum penicillato.

Hab. in Polyporo frondoso, rara, Bethlehem in Amer. bor. — Optime distincta ab Eleutheromycete subulato, cui habitu affinis.

COLLACYSTIS Kunze in Güntz Das Leichnam, I. p. 212, Fr. S. V. S. p. 407 (Etym. colla gluten, et cyste uter). — Perithecia subglobosa, firmula, lutescentia, floccis seu hyphis brevibus fasciculatis obtecta, iisque hinc illinc radicantia. Sporulæ globulosæ pallidæ.

1. Collacystis putredinis Kunze l. c. Fr. l. c. — Peritheciis 1/2-1 3301 mill. diam., sparsis vel aggregatis, ceraceis dein coriaceo-durius-

culis, hyphis brevibus albidis cinctis.

Hab. in cadavere humano semiputrido in Germania. — Bonorden, Abh. II. p. 135, citat speciem affinem in sacco putri in cellis lectám: peritheciis flavis dein olivaceis, minute celluloso-contextis; basidiis ramulosis sporulas globosas hyalinas gerentibus.

ROUMEGUÈRIELLA Speg. in Roum. Rev. Myc. (Etym. a cl. C. Roumeguère, meritissimo cryptogamologo gallo). — Perithecia sphærica, membranaceo-cartilaginea, alba vel læte colorata, irregulariter dehiscentia. Sporulæ numerosissimæ globosæ, in nucleum mucosum a perithecio discretum congestæ. Basidia evanescentia vel non visa. — Genus memorabile, teste Spegazzinio, inter Sphæropsideas et Hyphomyceteas ambiguum.

1. Roumegueriella muricospora Speg. 1. c., Eurotium album Lib. 3302 in Herb. et Cooke in Grevillea. — Peritheciis sphæricis, puncto centrali matrici adfixis, 0,3-0,4 mill. diam., membranaceo-tenacius-culis, contextu crassiuscule parenchymatico-membranaceo, roseo-flavo-albicantibus, irregulariter dehiscentibus; sporulis in nucleum gelatinosum conglutinatis, globosis, crassiuscule tunicatis, ubique densissime muriculato-asperulis, pallide flavis, 20 µ. diam.

Hab. in foliis et ramentis dejectis putrescentibus prope Malmedy in Arduennis (LIBERT) et prope Toulouse Galliæ (ROUMEGUÈRE).

— Sec. Cooke in Grevill. sporulæ primo concatenatæ dein liberæ.

LIBERTIELLA Speg. et Roum. in Revue Mycol. (Etym. a Domina A. LIBERT meritissima cryptogamologa Arduennensi, cui quoque dicatum est genus diversissimum melanconieum Libertella Desm.).

Nectrioideæ, Zythieæ, Hyalosporæ, Sphæronæmella.

617

— Perithecia carnosula, alba vel læte colorata, ostiolo late hiante donata, subsuperficialia. Sporulæ in basidiis acrogenæ, ellipticæ vel ovoideæ, hyalinæ. — Zythiæ valde affine genus.

1. Libertiella malmedyensis Speg. et Roum. I. c., Zythia Pelligeræ 3303 Lib. in Herb. et Cooke in Grevillea. — Peritheciis gregariis, hypophyllis, mollibus, carnosulis, globoso-conicis, albis, circa ostiolum late hians crateriforme fuscis, basi matrici innatis atque villosulis, siccitate cupulato-collabascentibus; gelatina sporulosa alba; 0,2, 0,3 mill. diam.; sporulis hyalinis, continuis, ellipticis vel ovoideis, granuloso-farctis, $5-6 \approx 2-2^{1}/_{2}$, basidiis subcylindraceis, $10 \approx 2$, suffultis.

Hab. in hypophyllo thalli Peltigeræ polydactylæ prope Malmedy in Arduennis (Libert).

SPHÆRONÆMELLA Karst. Hedw. 1884, p. 17 (Etym. a Sphæronæma, cui habitu affinis). — Perithecia subsphæroidea, membranacea, tenuissima, mollia, læticoloria, sicca indurata, cornea, superficialia, glabra, ostiolo rostellato. Sporulæ ellipsoideæ, continuæ, hyalinæ interdum appendiculatæ vel muco obvolutæ, plerumque ad apicem rostri in globulum denique expulsæ.

1. Sphæronæmella Mougeotii (Fr.) Sacc. Sphæria Mougeotii Fr. Elench. 3304 II. p. 100, Sphæronæma Hederæ Fuck. Symb. p. 178. — Erumpens, sparsa; peritheciis piriformibus mollibus roseis, siccis longitudinaliter collabascentibus et sub lente obsolete pruinosis, ostiolo papilliformi rostrato obscuriore; sporulis oblongo-allantoideis, $3 \approx 1$, hyalinis.

Hab. in sarmentis corticatis Hederæ Helicis in Gantia, Germania et Italia.

 Sphæronæmella acicularis (Fr.) Sacc. Sphæronæma aciculare Fr. 3305-S. M. II. p. 536, Sphæria dubia Tode Meckl. fig. 118. — Peritheciis cylindrico-attenuatis griseo-nigricantibus, deorsum flavis, globulo albo lutescente.

Hab. ad ligna quercina et pinea in Germania. — Affine Sphær. rufæ sed differt forma fere cylindrica, colore griseo semipellucido ad apicem deorsumque flavo, gelatina globosa flavescente. Basis passim strigosa.

3. Sphæronæmella diaphana (Fuck.) Sacc. Sphæronæma diaphanum 3306 Fuck. Symb. p. 399. — Peritheciis gregariis, conicis, olivaceis, seminis Papaveris magnitudine, diaphanis, demum atris, globulo sor-



618 Nectrioideæ, Zythieæ, Hyalosporæ, Sphæronæmella. dido, gelatinoso, magno terminali; sporulis ellipticis, rectis, $12 \approx$

4, hyalinis.

Hab. in fragmentis Laricis europææ prope (Estrich in Rhenogovia.

4. Sphæronæmella flavo-viridis (Fuck.) Sacc. Sph. flavo-viride Fuck. 3307 Symb. Myc. p. 147. - Peritheciis irregulariter clavatis, cylindraceis vel basi incrassatis, 2 mill. vix altis, flavo-viridibus, dein pallidis, globulo terminali, persistenti pallidiore; sporulis minutis ovatis, hyalinis.

Hab. in ligno putri carpineo et salicino, socia Lusiosphueria hispida cujus, teste Fuck., est spermogonium, in Rhenogovia.

5. Sphæronæmella rufa (Fr.) Sacc. Sph. rufum Fr. S. M. II. p. 536. 3308 - Peritheciis subulatis, acutis, rufis, deorsum pallidioribus, globulo limpido pallidiore; sporulis perexiguis oscillantibus globosis; basidiis fasciculatis 25 u. longis.

Hab. in lignis Pini inque Magnolia et Clethra in Suecia et America boreali. — Gregaria, junior mollis rufa, dein indura-

ta, fusca, semper levis glabra.

6. Sphæronæmella cincta (Corda) Sacc. Sph. cinctum Corda Ic. IV. 3309 p. 39, f. 113. — Peritheciis solitariis majusculis, conicis, levibus, rufo-fuscis, supra in collum longum attenuatis, infra anulo basilari pallide fusco aculeolato cinctis; sporulis

Hab. in asseribus pineis, Prag Bohemiæ.

7. Sphæronæmella aurantiaca (Ces.) Sacc. Sphæronæmu? aurantia- 3310 cum Ces. Myc. Born. p. 24. — Peritheciis membranaceis, 5 mill. altis, ligulatis vel difformibus, apice angustato obtuso, sub lente composita longitudinaliter lineatis, (in sicco) compressis; sporulis minutissimis, ovoideis, hyalinis.

Hab. in truncis Ceylon et Kandy. - Verisimiliter spermogo-

nium Nectrice cujusdam.

8. Sphæronæmella oxyspora (Berk.) Sacc. Sphæronæma oxysporum 3311 Berk. Dec. of Fungi n. 136. — Peritheciis subulatis flavis apice nudis; sporulis ellipticis utrinque appendiculatis.

Hab. in hymenio Polypori et Merulii tremellosi, Waynesville, Ohio (LEA) et Forestburgh (PECK) Americæ bor. —

« An Eleutheromyces, ascis prætervisis?».

9. Sphæronæmella Helvellæ Karst. Hedw. 1884, p. 18. — Peritheciis 3312 confertis, ovoideo-sphæroideis vel sphæroideis, flavescentibus, 120 μ . d. vel 150 pprox 135, rostro teretiusculo, apice penicillato, hyalinoalbido, $300-350 \approx 20-35$; globulo magno, rotundato ex albido flavido; sporulis ellipsoideis, plerumque 1- vel 2-guttulatis, muco obvolutis, hyalinis, $7-13 \approx 4-6$ μ . diam.

Hab. ad Helvellam infulam semiemortuam in Fennia.

ASCHERSONIA Mont. Syll. Crypt. n. 929 (Etym. a cl. F. M. Ascherson, Medico borusso, opellæ de fungis venenatis auctore). — Stroma carnosum, hemisphæricum, turbinatum v. pulvinatum, læte coloratum, primitus velo fugaci byssino concolori tectum. Perithecia (seu loculi) stromate subimmersa membranacea, tenuissima, erecta, fibroso-cellulosa porisque late apertis (tandem rimose confluentibus) pertusa. Basidia filiformia. Sporulæ fusiformes hyalinæ, continuæ subinde 3-4-guttulatæ spurieque septatæ. — Fungi phyllogeni, tropici, Hypocreis affines et paralleli, sed ascis carentes.

Aschersonia tahitensis Mont. Cent. VI. n. 11, p. 122, t. 6, f. 3, in 3313
 Ann. Sc. Nat. 1848. — Stromate hemisphærico, truncato, obtuso luteo, 1-2 mill. diam.; peritheciis subquindenis erectis minutis, ¹/₃ mill. diam., poris per rimulas conjunctis; sporulis minutis, fusoideis utrinque acutissimis, 15 ≈ 2, 4-guttulatis, hyalinis; basidiis filifor-

mibus, 20-25 μ , longis.

Hab. in foliis cujusdam Cyrtandræ in Tahiti (J. Lèpine).

2. Aschersonia turbinata Berk. Fungi St. Domingo n. 52. — Stro- 3314 matibus turbinatis, 3-4-fasciculatis, sursum liberis excavatisque, deorsum connatis, extus granulosis; peritheciis disco stromatis immersis, oblongis, in ostiola elongata vix exstantia productis, subhyalinis; sporulis fusoideis continuis hyalinis, 9-10 p. longis.

Hab. in foliis, plerumque epiphylla, S. Domingo (Salli). — Ha-

bitus fere Corynes sarcoidis.

3. Aschersonia basicystis B. et C. Cub. Fungi n. 558. — Stromate 3315 breviter elevato, 2 mill. diam., apice plano pallide cervino, e strato orbiculari oriundo, brevissime stipitato; stipite cellulifero.

Hab. in foliis emortuis dejectis in Cuba. — Stromatis pars superior e cellulis radiantibus constat, quæ abeunt in floccos, ad cujus

apicem loculi generantur.

4. Aschersonia rufa (B. et Br.) Sacc. Myrosporium rufum B. et 3316 Br. Ceyl. Fungi n. 793. — Placentæformis, rufa, nitida, collabens; sporulis subellipticis, 12-15 ≈ 10.

Hab. in petiolis Palmarum, ut videtur, Peradeniya Ceylon.

— Habitus omnino Hypocreæ collapsæ. Sec. Berk. ad Myrosporium Corda propius accedit, quod vero genus est Myxomyces, teste Frieso. Etiam, colore dempto, ad Coccularium Corda nutat.



Nectrioideæ, Zythieæ, Hyalosporæ, Dichlæna.

620

«Mihi vero e descriptione species ad Aschersoniam omnino referenda videtur».

Aschersonia cubensis B. et C. Cub. Fungi n. 557. — Stromate 3317 pallido, convexo, obtuso, carneo, pruinoso, apice leviter umbilicato, quandoque basi dilatata; sporulis fusiformibus acuminatis, 10 μ. long.

Hab. in pag. inf. frondis Pteridis in Cuba, River Amazon, Brasil.

Aschersonia Placenta Berk. F. of Ceyl. n. 799. — Flava, orbicu- 3318 laris, centro rugosa, margine membranaceo candido; sporulis breviter fusiformibus, 5 μ. longis.

Hab. in foliis Loranthi et Memecyli capitellati in Ceylon et in insula Marquesas (E. IARDIN). — Tota superficialis, cocci ad instar.

7. Aschersonia mellea B. et Br. F. of Ceyl. n. 798. — Pulvinata, 3319 mellea, glabra, 2-3 mill. diam.; loculis demersis; sporulis subellipticis nucleatis.

Hab. in cortice emortuo in insula Ceylon australiore.

Aschersonia duplex Berk. F. New Zeal. p. 194. — Flava, rubi- 3320 formis vel simplex cellulis majoribus minoribusque; sporulis oblongis angustis, 7-8 μ. longis, hyalinis, continuis.

Hab. in foliis Asteliæ in Nova Zelandia (COLENSO).

9. Aschersonia oxyspora Berk. Decad. of Fungi n. 463 et 615^{bis} in 3321 Hook. Journ. — Stromate basi floccoso-expanso, leviter cylindrico ceraceo, depresso, centro 2 mill. diam., armeniaci vel carnei coloris; loculis paucis, irregularibus, magnis, subinde convolutis; sporulis oblongis, 10-15 µ. longis utrinque appendiculatis.

Hab. in foliis Myrsinearum etc. Khasia Indiæ et S. Carlos Brasiliæ.

- DICHLÆNA Mont. et Dur. Fl. Alg. p. 405 (Etym. dis bis, et chlæna toga). Mycelium floccoso-radiatum, floccis raris. Perithecia vitellina e tunica duplice composita, utraque membranaceo-cellulosa; exterior tandem prope basin circumscissa cupulam relinquens, interior vero tenuissima. Sporulæ simplices, hyalinæ, myriadeæ. Flocci vel basidia nulla observata.
- 1. Dichlæna Lentisci Mont. et Dur. Fl. Alg. p. 405, t. 22^{bis}, f. 2. 3322 Hypophylla, e flavo vitellina; perithecio exteriori subgloboso minute celluloso, basi brevissime radiatimque floccoso, tandem circumscisso, interiori tenuissimo venis laxe anastomosantibus per-

Hab. in foliis Lentisci per totam Algeriam frequens (Durieu).

- PSEUDODIPLODIA Karst. Symb. Myc. Fenn. XV. p. 156, ut subgenus. (Etym. Pseudo et Diplodia, h. e. Diplodia spuria). Perithecia subsuperficialia, globulosa, ceraceo-carnosa, madore fuliginea, mox ore lato aperta. Sporulæ ellipsoideæ 1-septatæ, dilute olivaceæ.
- Pseudodiplodia ligniaria Karst. l. c. Peritheciis laxe gregariis 3323
 v. sparsis, emergenti-subsuperficialibus, applanatis, orbiculatis v.
 ellipsoideis, udis fuligineis (rubiginosis?), siccis nigrescentibus, primitus clausis, mox ore lato orbiculari v. oblongato apertis, intus (disco) pallescentibus, 0,2 mill. lat.; sporulis ellipsoideis utrinque obtusis, 1-septatis non v. vix constrictis, 10-13 ≈ 6-8, 2-guttatis, dilute olivaceis.

Hab. in ligno vetusto prope Helsingfors Fenniæ.

- STAGONOPSIS Sacc. (Etym. Stagon, pro Stagonospora, et opsis facies, h. e. Stagonosporæ analogum genus). Perithecia erumpentia vel subsuperficialia, ceraceo-mollia, læticoloria (carnea etc.) globulosa. Sporulæ oblongæ vel subfusoideæ 2-pluriseptatæ, hyalinæ. Plures species adsunt ab auctoribus ut formæ metageneticæ Nectriæ vel Calonectriæ obiter descriptæ.
- Stagonopsis pallida (B. et C.) Sacc. Hendersonia pallida B. et C. 3324
 North Amer. Fungi n. 429^{bis}. Peritheciis sparsis, nudis, pallide carneis; sporulis arcuatis hyalinis, 7-8-septatis, 8-9-nucleatis.

Hab. in Corno, socio Helminthosporio quodam, Alabama in Amer. bor. — Probabiliter pycnidium Calonectriæ cujusdam.

- CHIASTOSPORA Riess in Fres. Beitr. Myk. p. 43 (Etym. chiastos decussatus, et spora). Perithecia sublentiformia, mollia, pallida, ostiolo rotundo dehiscentia. Sporulæ decussatæ, 4-radiatæ, hyalinæ, septatæ radiis inæqualibus. Basidia monospora, septata, hyalina.
- 1. Chiastospora parasitica Riess in Fres. l. c. t. V. f. 18-21. 3325 Peritheciis lentiformibus, pallidis, flavidis vel dilute fuscis $\frac{1}{10}-\frac{1}{5}$ mill. diam.; basidiis cylindrico-clavulatis septatis, fasciculatis hyalinis; sporulis 4-radiatis (sæpius ad instar X), hyalinis, 22-25 μ . longis, 4-6-septatis, radiis inæqualibus acutiusculis.

Hab. ad ostiolum Massariæ pyxidatæ prope Cassel in Germania.

POLYSTIGMINA Sacc. (Etym. a Polystigma, cujus analogum et metageneticum genus). - Stroma phyllogenum, subdiscoideum, convexo-planum, carnosulum, amœne rubescens, intus pluriloculare. Sporulæ filiformes subuncinatæ, continuæ, hyalinæ.

1. Polystigmina rubra (Desm.) Sacc. Septoria rubra Desm. 10 Not. 3326 p. 8, Libertella rubra (Desm.) Bon. — Hypophylla; stromate suborbiculari, carnoso, planiusculo vel convexo rubro, demum rufofusco; peritheciis minutissimis, numerosis, saturatioribus, immersis; ostiolis punctiformibus; cirris albidis; sporulis linearibus, rectis curvatis vel subuncinatis, 6-9-nucleolatis, 25-30 = 1-1.5.

Hab. in foliis Pruni domesticæ et spinosæ in Gallia, Germania, Italia, Austria. — *amygdalina Desm. l. c.: maculis brunneo-nigricantibus, in ambitu aurantiis. In foliis vivis Amygdali in Gallia et Italia. — Spermogonium Polystigmatis rubri. — Libertella fulva Thum. M. U. n. 1195 est verum Polystigma ochraceum seu fulvum, optime ascophorum: ascis 70-80 = 13-15; sporulis 14-15 = 6.

HYSTEROMYXA Sacc. et Ellis Mich. II. p. 574 (Etym. Hysterium et myxa, ob affinitatem cum Myxomycetibus). — Perithecia (genuina?) superficialia, applanata, ambitu oblonga vel subangulosa, læte colorata, rimose vel substellatim dehiscentia; contextu tenui, irregulariter celluloso (?), cuticula anhista diaphana obducto. Sporulæ (conidia?) copiosæ, globulosæ, læte coloratæ; basidia nulla (vel saltem non visa). — Genus adhuc dubium et ulterius vivum inquirendum, hinc ad Myromycetes, illine ad Sphæropsideas subcupulatas nutans.

1. Hysteromyxa effugiens Sacc. et Ellis Mich. II. p. 574. — Peri- 3327 theciis exiguis, applanatis, superficialibus, rubellis, 1/6 mill. diam.; sporulis (conidiis?) globosis, levibus, 8-10 \(\rho_{\text{.}}\) diam., 3-4-guttulatis e hyalino roseis; basidiis nullis visis.

Hab. ad folia emortua Cupressi thyoidis, Newfield N. J. Amer. bor. (ELLIS). — Contextus perithecii videtur formatus e cuticula anhista cui cellulæ subrotundæ variæ rufulæ laxe adhærent.

PATELLINA Speg. Fung. Arg. III. n. 164 (Etym. a patella ob formam perithecii). — Perithecia patellari-cupulata, glabra, carnosa, sessilia, speciosa. Sporulæ globosæ vel ellipticæ, continuæ, hyalinæ, in basidiis cylindricis acrogenæ.

1. Patellina italichroma Speg. Fung. Arg. Pug. III. n. 164. — Pe- 3328 ritheciis orbiculari-applanatis, sæpe confluendo difformibus, carnoso-ceraceis, hypothecio crassiusculo, obscure viridi, margine candido, contextu parenchymatico, olivascente; epithecio amœne aurantiaco vel roseo-carneo; sporulis ellipticis vel ovoideis, biguttulatis, continuis, hyalinis, 3-4 ≈ 1,5, in basidiis filiformibus prælongis, 80-120 ≈ 1, acrogenis.

Hab. in palo vetusto subputrido Meliæ Azedarach prope el Retiro, Buenos Aires Argentinæ. — Species perpulchra! Jove pluvio, epithecium defluit ac apothecium album cavum manet.

- CYPHINA Sacc. (Etym. cyphos vas concavum), Excepula Peck e. p. Perithecia excipuliformia, minuta, læticoloria (flava vel aurantiaca) pilis mollibus albidis vestita. Sporulæ oblongæ, continuæ, hvalinæ. «Forte Volutellæ analoga».
- Cyphina lanuginosa (Peck) Sacc. Excipula lanuginosa Peck Rep. 3320 on the St. Mus. N. York, cum icone. Peritheciis excipuliformibus minutis, flavidis vel aurantiacis, copiosis, plerumqne pilis longis, mollibus, sordide albis; sporulis oblongis, hyalinis, 7-8,5 μ. longis.

Hab. in caule Meliloti, Bethlehem Amer. bor. — Peritheciis læte coloratis et pilis pallidis ab Excipulis mox dignoscitur.

REPERTORIUM

SPHÆROPSIDEARUM NECTRIOIDEARUM

SECUNDUM MATRICES

Ohs. A. indicat Aschersonia. — Ch. Chiastospora. — Co. Collacystis. — Cy. Cyphina. — D. Dichlæna. — H. Hysteromyxa. — L. Libertiella. — P. Pseudodiplodia. — Pa. Patellina. — Po. Polystigmina. — R. Roumeguèriella. — S. Sphæronæmella. — St. Stagonopsis. — Z. Zythia.

N. 3291 — 3329 citantur 291 — 329

Amygdalus — Po. 326. Astelia — A. 320.

Beta — Z. 298. Brassica — Z. 296.

Carpinus — S. 307. Clethra — S. 308. Cornus — Z. 291. — H. 324. Cupressus — H. 327. Cyrtandra — A. 313.

Hedera — S. 304. Helvella — S. 312.

Larix — S. 306. Lentiscus — D. 322. Loranthus — A. 318.

Magnolia — S. 308. Massaria — Ch. 325. Melia — Pa. 328.

Melilotus — Cy. 320.

Memecylus — A. 318.

Mercurialis — Z. 295.

Merulius — S. 311.

Myrsineaceæ — A. 321.

Myrtaceæ — Z. 292.

Palmaceæ — A. 316.
Peltigera — L. 303.
Pinus — S. 305. 308. 309.
Polyporus — Z. 300. — S. 311.
Prunus — Po. 326.
Pteris — A. 317.
Punica — Z. 293.

Quercus - S. 305.

Rhinanthus - Z. 299.

Salix - S. 307.

Fam. 3. Leptostromaceæ Sacc.

Dimidiato-scutatæ Sacc. Mich. II. p. 8.

Perithecia plus v. minus distincte dimidiata, scutiformia, astoma v. ostiolata v. hysterioideo-rimosa, membranacea v. carbonacea, atra, erumpentia v. superficialia.

Clavis analytica generum.

Sect. 1. Hyalosporæ Sacc.

Sporulæ globosæ v. ellipsoideæ v. oblongæ, continuæ, hyalinæ.

- I. Perithecii contextus distincte parenchymaticus.
- A) Perithecia astoma v. varie hiantia, sed non longitudinaliter rimosa.

 **Leptothyrium.* Perithecia depresso-clypeata, plerumque facile secedentia; basidia obsoleta.
- Piggotia. Perithecia irregularia, depressa, non secedentia, sæpe stellatim digesta; basidia columnaria.
- Melasmia. Perithecia irregularia, depressa, stromate phyllogeno atro innata; basidia obsoleta.
- Actinothecium. Perithecia elypeata et stellatim rimosa, sæpe vero in radios hysteriiformes, lanceolatos, sulcatos divisa; basidia obsoleta (Transit ad B).
 - B) Perithecia distincte v. obsolete longitudinaliter rimosa, subhysterioidea.
- Leptostroma. Perithecia lanceolata v. elongata, sæpe demum secedentia, subcarbonacea. (Plurium specierum fructificatio latet).
- Labrella. Perithecia subcircularia, non secedentia, sæpe spuria.
 - II. Perithecii contextus subanhistus, punctulatus (non vere cellulosus).
- Sacidium. Perithecia clypeata; sporulæ globosæ, ellipsoideæ v. oblongæ (Pluves species, ignoto contextu, forte ad Leptothyrium ducendæ).

Sect. 2. Phæosporæ Sacc.

Sporulæ globulosæ v. ellipsoideæ, continuæ, fuscæ.

Pirostoma. Perithecia scutiformia, centro umbilicato-pertusa.

Sect. 3. Phragmosporæ Sacc.

Sporulæ oblongæ, hyalinæ, 2-pluriseptatæ v. 4-loculares, loculis subcruciatim positis.

Discosia. Sporulæ fusoideæ, 2-pluriseptatæ, utrinque 1-ciliatæ. Entomosporium. Sporulæ cruciato-tetrameræ, loculis omnibus 1-ciliatis.

Sect. 4. Scolecosporæ Sacc.

Sporulæ filiformes v. bacillares, continuæ v. septatæ, hvalinæ.

Actinothyrium. Perithecia clypeata subastoma margine eximie radiatim fimbriata.

Melophia. Perithecia elypeata subastoma, corrugata, margine non fimbriata. Leptostromella. Perithecia elongata, longitrorsum rimosa, hysterioidea.

II. p. 114, n. 955 (Etym. leptos tenuis, et thyreos scutum). — Perithecia dimidiata, scutiformia, membranaceo-carbonacea, atra, astoma v. varie hiantia, dein circumscisso-soluta, contextu plerumque distincte celluloso-radiato, subinde tamen spurio et ex epidermide mutata et atrata formato. Sporulæ ovoideo-oblongæ v. fusoideæ, continuæ, hvalinæ.

I. In plantis dicotyledoneis arboreis.

A) Foliicolæ.

1. Leptothyrium Periclymeni (Desm.) Sacc. Labrella Periclymeni 3330 Desm. 16 Not. p. 358 (1849) Leptothyrium pictum B. et Br. Ann. N. H. n. 1450 (1875), Sacc. Mich. I. p. 94 et F. ital. t. 93. Depazea Nylostei Pass. Hedw. 1877, pag. 117. Phyllosticta Vossii Thüm. in Voss Mat. p. 48 cum icone; an Phyllosticta Lonicerae West.? — Maculis subolivaceis dein arescendo expallentibus, subrotundis, subinde fusco-marginatis; peritheciis sparsis epiphyllis, innato-erumpentibus, scutiformibus, atris, radiatim textis, dein radiatim dehiscentibus; sporulis oblongis rostrato-recurvis, $25 \approx 8-10$, guttulatis, hyalinis.

Hab. in foliis Lonicera Xylostei et L. Caprifolii in Britannia, Italia, Lusitania, Gallia et Austria.

2. Leptothyrium Coryli Lib. in Cooke Grevill. — Maculis magnis, 3331 orbiculatis, fuscis; peritheciis hypogenis, sparsis, minimis, planiusculis, rugosis, nigris, basi circumscissis; pulpa grisea; sporulis ovatis, binucleatis, pellucidis.

Hab. in foliis Coryli Avellanæ in Arduennis.

3. Leptothyrium corylinum Fuck. Symb. p. 120, Sacc. Syll. I. p. 419. 3332 — Peritheciis scutiformibus in macula exarida obscuriori sparsis,

demum applanatis plicatisque, atro-fuscis, nitidis, minutissimis; sporulis vermicularibus curvatis, linearibus, multiguttulatis, hyalinis, $18 \approx 2$.

Hab. in pag. inf. foliorum Coryli Avellanæ in Germania, Lusitania. — Spermogonium Gnomoniellæ Coryli.

4. Leptothyrium alneum (Lév.) Sacc. Mich. I. p. 202. Melasmia al- 3333 nea Lév. Ann. Sc. nat. 1848, p. 252. — Peritheciis scutiformibus convexo-planis, atris, dein radiatim subplicatis; sporulis botuliformibus, curvulis, $8-9 \approx 1^{1}/_{2}-2$, hyalinis.

Hab. in foliis languidis Alni glutinosæ et A. serrulatæ in Gallia, Italia, Britannia et America boreali. — An status provectior Glæosporii cylindrospermi (Bonorden)? — Aptius omnimode Leptothyrio quam Melasmice adscribenda species.

5. Leptothyrium Pini (Corda) Sacc., Sacidium Pini (Corda) Fr. Sum- 3334 ma p. 420. Coniothyrium Pini Corda Ic. fung. IV. p. 38, fig. 405.
 – Hypophyllum, minutissimum; perithècio verruciformi fusco celluloso, dein circumscisso v. lobato; sporulis magnis ovato-oblongis, hyalinis, episporio tenui, 16-18 μ. longis.

Hab. in foliis Pinorum et Abietum in Bohemia, Germania, Austria, Italia boreali, America sept. — Contextus cellulosus manifestissimus.

6. Leptothyrium Betulæ Fuck. Symb. myc. pag. 383. — Peritheciis 3335 (spuriis?) gregariis, punctiformibus, scutiformibus, orbicularibus, atro-nitidis; sporulis minutissimis, cylindraceis, curvatis, circ. 4 = 1, hyalinis, in sterigmatum simplicium apicibus.

Hab. in foliis putrescentibus Betulæ albæ in Mittelheimer Wald Rhenogoviæ.

7. Leptothyrium? botryoides Sacc. Mich. II. p. 168. — Peritheciis 3336 convexo-scutiformibus, atro-nitentibus, amphigenis, ½-½ mill. d., dein botryoso-corrugatis, contextu minute parenchymatico fuligineo; sporulis cylindraceis, utrinque obtusiusculis, 12-15 = 2, sæpissime (normaliter?) catenulatis, nubilosis, hyalinis, basidiis conformibus suffultis.

Hab. in foliis aridis Fagi silvaticæ, socio Coccomycete coronato, cujus verisimiliter spermogonium, in M. Sol (Possagno), Ital. bor. (Λ. Rossi). — A genere recedit et ulterius observandum.

8. Leptothyrium Populi Fuck. Symb. myc. p. 383, t. II. fig. 29. — 8337 Peritheciis (spuriis?) maximis clypeatis, atro-nitentibus, amphigenis; sporulis cylindraceo-fusoideis rectis curvulisve, utrinque acutiusculis, hyalinis, 10-12 = 1,5-2, utrinque obtusis.



Hab. in foliis Populi nigræ et pyramidalis pr. Hattenheim Rhenogoviæ et Padova Italiæ borealis.

9. Leptothyrium maculicolum Winter. Cont. Myc. Lus. n. 794. — Peri. 3338 theciis in macula magna, exarida, grisea, angustissime fusco-cineta, angulata, 8-20 mill. lata, sparsis, epiphyllis, disciformibus, atris, subcutaneis, circa 250 μ. diam.; sporulis ovatis vel piriformibus, antice late rotundatis, continuis, pallidissime coloratis, 15-16 = 8-9.

Hab. in foliis vivis Quercus Suberis, Lombaria pr. Coim.

Hab. in foliis vivis Quercus Suberis, Lombaria pr. Coimbra Lusitanie.

10. Leptothyrium dryinum Sacc. Mich. I. p. 202. — Peritheciis pun- 3339 ctiformibus, 50-80 μ. diam., superficialibus, scutiformi-applanatis, atris e cellulis fibrosis radiantibus, circumcirca fimbriatis compositis, medio dehiscentibus; sporulis ratione perithecii majusculis, ovoideis, 10-12 ≈ 7, minute pluriguttulatis, fuscidulis.

Hab. in foliis nondum emortuis Quercus pedunculatæ in silva Montello Italiæ bor. nudo oculo vix percipiendum. — Ob formam perithecii ad Actinothyrium vergit, sed fabrica sporularum maxime differt.

11. Leptothyrium quercinum (Lasch) Sacc. Mich. II. p. 113. — Le 3340 ptostroma quercinum Lasch in Kl. H. M. n. 1075. — Peritheciis dimidiatis, subcircularibus v. angulosis, nitidis, planis, minutis, obsolete radiato-contextis; sporulis bacillari-navicularibus, 9 ≈ 1,5, hyalinis.

Hab. in foliis dejectis Quercus Roboris et Suberis in Germania, Italia, Gallia, sæpe socio st. ascoph. Coccomycete dentalo (Kunze et Schm.) Sacc.

12. Leptothyrium Castaneæ (Spr.) Sacc. Mich. p. 631. Leptostroma 3341 Castaneæ Spr. Syst. Veg. IV. pag. 538. Xyloma geographicum Pers., Sphæria castaneicola DC. p. p. — Peritheciis subcircularibus v. angulosis, planis, nigris, nitidis, minutis; sporulis cylindraceis, 5-6 = 0,7, hyalinis.

Hab. in foliis dejectis Castaneæ vescæ in Germania, Italia, Lusitania. — Spermogonium Coccomycetis dentati (Kunze et Schm.) Sacc. f. Castaneæ.

13. Leptothyrium Rosarum Cooke Grev. XII. p. 25. — Hypophyllum; 3342 peritheciis discoideis, applanatis, atris, hinc illinc aggregatis; sporulis ovato-ellipticis, hyalinis, 3,5 ≈ 2.

Hab. in foliis Rosarum in Carolina inf. (RAVENEL).

14. Leptothyrium cinctum Cooke Grev. XII. p. 25. — Hypophyllum; 3343

peritheciis subangulatis, minutis, applanatis, fuscis, circumcirca annulo pallescente cinctis; sporulis ovalibus, hyalinis, $5 \approx 2.5$.

Hab, in foliis Cerasi serotinæ in Carolina infer. (RA-VENEL).

15. Leptothyrium Libertianum (Thüm.) Sacc. Mich. II. p. 631, Saci-3344 dium Libertianum Thüm. Hedw. 1880, p. 190. — Peritheciis disciformibus atris, dein secedentibus, minutis, contextu parenchymatico distincto; sporulis ellipsoideis, 7-8 = 6½-7, hyalinis.

Hab. in foliis languidis Pruni Padi in Arduennis (LIBERT).

— Quum contextus adsit, est mihi potius Leptothyrium quam Sacidium.

16. Leptothyrium Rubi (Duby) Sacc. Mich. II. p. 351. Spherria (Do-3345 thidea) Rubi Duby Bot. Gall. II. p. 712. — Peritheciis clypeatis, radiato-contextis, areolis foliorum dealbatis insidentibus, 150 μ . diam.; sporulis teretiusculis, $4-4^{1}/_{2} \approx ^{3}/_{4}$, hyalinis, basidiis bacillaribus, interdum ramulosis (!), $20 \approx 1-2$ suffultis.

Hab, in utraque pagina foliorum languentium Rubi in Gallia et Algeria. — Species Leptothyrio clypeosphærioide Sacc. multo minor.

17. Leptothyrium myrtinum (Dur. et Mont.) Speg. F. Arg. Pug. IV. 3346 n. 305. Pilidium myrtinum Dur. et Mont. Fl. Alg. I. p. 598, t. 26, f. 8. — Maculis amphigenis, magnitudine variis, 2-4 mill. diam., indeterminatis, pallescentibus; peritheciis paucis, atris, centralibus, parvulis, 120-150 p. diam., primo epidermide integra tectis, dein ea lacerata, cinctis; sporulis cylindraceo-allantoideis, longiusculis, utrinque inæquilateraliter rotundato-acutatis, $20 \approx 2$, continuis, hyalinis.

Hab. ad folia dejecta putrescentia Myrtacearum in Algeria (Durieu), in Chili (Gar) et prope Apiahy Brasiliæ meridionalis (J. Puiggari).

18. Leptothyrium ilicinum Sacc. — Maculis nullis; peritheciis am- 3347 phigenis sed sæpius hypophyllis, planiuscule scutatis, subcircularibus, $^1/_5$ - $^1/_3$ mill. diam., minute celluloso-contextis, varie dehiscentibus, ambitu inæqualibus; sporulis rectis bacillaribus utrinque obtusis, $20-25 \approx 3$, e hyalino dilutissime olivaceis, in basi stromatica sessilibus.

Hab. in foliis emortuis et dejectis Quercus Ilicis in collibus Euganeis Ital. bor.

19. Leptothyrium petiolorum (C. et Ell.) Sacc. Leptostroma petiolo- 3348 rum C. et E. New Jersey Fungi in Grevillea. — Sparsum, orbi-

Leptostromaceæ, Hyalosporæ, Leptothyrium.

culare scutellatum, nigrum; sporulis minimis, linearibus, rectis, hyalinis, 5 μ . longis.

Hab. in petiolis Ailanthi, New Jersey.

20. Leptothyrium discoideum (Cooke) Sacc. Leptostroma discoideum 3349 Cooke Grev. 1880, p. 11. — Epiphyllum, punctiforme, sparsum, convexum, atrum; sporulis minutis, linearibus, hyalinis, rectis, 6 p. longis.

Hab. in foliis Coffe & arabic &, Venezuela (Doct. Ernst). —

Habitus fere Microthyrii.

630

21. Leptothyrium sibiricum Thum. Pilzfl. Sibir. n. 801. — Perithe- 3350 ciis amphigenis sed plerumque hypophyllis, sparsis, sine ordine dispositis, applanatis, orbiculatis, emersis, levibus, submagnis, nigris; sporulis numerosissimis, late spathulatis vel interdum botuliformibus, utrinque angustato-truncatis, rectis, raro subarcuatis, episporio crassissimo levi, subachrois vel plerumque dilute flavescentibus, 20-22 = 7-8.

Hab. in foliis vivis Tragopyri lanceolati (Polygoni frulescentis Lin.) pr. Minussinsk Sibiriæ asiaticæ.

22. Leptothyrium acerinum (Kunze) Corda Icon. II. p. 25, t. XII. f. 3351 92. Fuck. Symb. t. II. f. 30. *Pilidium acerinum* Kunze Myk. Heft. II. p. 92, t. II. f. 5. — Peritheciis (spuriis) hypophyllis applanatis, minutis, nigris, demum per 3-5 dentes laciniatim dehiscentibus, intus albidis; sporulis cylindraceo-fusoideis, falcatis, 10-14 ≈ 1½-2, hyalinis, initio sterigmatibus filiformibus, 10-12 ≈ 1 suffultis.

Hab. in foliis Aceris campestris et Aceris platanoidis in Germania, Italia, Gallia, Austria, Britannia.

23. Leptothyrium Coriariæ (Berk.) Sacc. Pilidium Coriariæ Berk. 3352 Fl. New Zeal. p. 195. — Peritheciis subrigidis demum centro perforatis collabascentibus; sporulis curvulis linearibus utrinque subattenuatis, 16-17 y. diam.

Hab. in foliis emortuis Coriariæ sarmentosæ in Nova Zelandia (Colexso).

24. Leptothyrium? foraminulatum Sacc. et Ell. Mich. II. p. 375. — 3353
Peritheciis gregariis superficialibus, punctiformibas, scutato-planis, astomis, nigris; contextu parenchymatico radiato, cellulis sæpe cuboideo-oblongis fuligineis, excentrice minute hyalino-uni-punctatis (sir ulate foraminulatis); sporulis ... non visis.

Hab. in foliorum pagina superiore Ilicis opacæ, Newfield

Amer. bor. (ELLIS). — Etsi fructificatio ignota, species ob cellulas perithecii punctulata distincta videtur.

B) Ramicolæ

25. Leptothyrium clypeosphærioides Sacc. Mich. II. p. 114. — Peri- 3354 theciis gregariis, superficialibus, (an epidermide tenuissima velatis?) scutato-planis, 250 a. diam., atris, nitidis; contextu parenchymatico, subradiato, ad centrum tenuiore; sporulis cylindraceis, rectiusculis, utrinque obtusis, $5-6 \approx 1$, hyalinis, basidiis $7-10 \approx 1$ 1/4 e strato fuscidulo oriundis, suffultis.

Hab. in sarmentis Rubi fruticosi pr. Rouen Gallie (MAL-BRANCHE).

26. Leptothyrium Celastri B. et C. North Am. Fungi n. 392. — Su- 3355 perficiale, orbiculare, atrum, gregarium; sporulis cylindricis, 25 ν . longis.

Hab. in ramulis Celastri, New England Amer. bor. (Murray).

27. Leptothyrium Cytisi Fuck. Symb. myc. p. 383, t. I. f. 31. — Pe- 3356 ritheciis spuriis oblongis orbicularibusque, usque ad lineam longis, convexis, demum planis, rugulosis, nitidis, atro-fuscis; sporulis continuis, cylindraceis, curvatis, 26 = 2, hyalinis.

Hab. in ramis siccis Cytisi sagittalis pr. Eberbach Rhenogoviæ et in Arduennis. — «Cellulæ perithecii tortuosæ, fuligineæ; sporulæ bacillari-curvulæ $16-25 \approx 1\frac{1}{2}-2$, hyalinæ, basidiis teretibus, $6-8 \approx 2$, hyalinis suffultæ.»

28. Leptothyrium Passerinii Thüm. Weinst. p. 152. — Peritheciis 3357 magnis, gregariis, late elongatis, planis, seriatis, subepidermicis vel epidermidem perforantibus, glauco-nigris, sublevibus; sporulis perpaucis, tenuissimis, minutissimis, ovoideis, utrinque rotundatis, simplicibus, achrois, 1,5-2 ≈ 1.

Hab. ad sarmenta subputrida Vitis viniferæ, Parma in Italia bor. (Passerini).

29. Leptothyrium perpusillum Pass. et Thüm. Weinst. p. 152. — Pe- 3358 ritheciis minutissimis, gregariis, subprominulis, subconicis, epidermidem perforantibus, liberis, atris; sporulis cylindraceo-ellipticis vel subclavulato-cylindricis, rectis, vertice obtuse rotundatis, subdilatatis, basi leniter angustatis, uniseptatis (genuine?), medio non constrictis, numerosissimis, hvalinis, 6-8 ≈ 3.

Hab. ad sarmenta arida Vitis viniferæ, Parma in Italia boreali (Passerini).



C) Fructicolæ.

30. Leptothyrium Pomi (Mont. et Fr.) Sacc. Mich. II. p. 113. La-3359 brella Pomi M. et Fries Not. etc., in Ann. 2, I. p. 347 et Mont. Syll. n. 991. — Macula nulla; peritheciis dimidiatis subcircularibus v. ellipticis minimis nitidissimis. contextu subradiato, fuligineo, nucleo albo-celluloso..... asporo viso.

Hab. in epicarpio fructuum Piri Mali in Gallia et in Rhode

Island.

31. Leptothyrium carpophilum Pass. Thum. Myc. univ. n. 1081. — 3360 Maculis subdiscoideis v. confluentibus, fusco-atris; peritheciis sparsis, atris, conico-depressis, basi circumscissa secedentibus; sporulis elongato-fusiformibus, curvis vel flexuosis, intus nucleolatis, integris vel obscure septatis, hyalinis.

Hab. in fructibus Piri communis diu servatis, Parma Ital.

bor. (Passerini).

32. Leptothyrium conigenum Peyl Lotos 1857, p. 66, n. 10 fig. 10 3361 (non vidi).

Hab. in strobilis Coniferarum in Bohemia meridionali.

33. Leptothyrium Leguminum (Cooke) Sacc. Leptostroma Legumi- 3362 num Cooke in Grevillea. — Punctiforme, sparsum, sub epidermide nidulans, brunneum, superne porosum; sporulis ovoideis, hyalinis, 5 = 3.

Hab. in leguminibus Clitoreæ, Madras Indiæ.

II. In plantis dicctyledoneis herbaceis. A) Foliicolæ.

34. Leptothyrium asterinum B. et Br. Ann. N. H. n. 1901. t. III. 3363
 f. 1. — Maculiforme, incrassatum, rubro-marginatum; sporulis oblongis, curvis binucleatis, 25-35 μ. longis; basidiis bacillaribus.
 Hab. in foliis Asteris Trifolii, Fleetwood Britanniæ (A.

BLOXAM).

35. Leptothyrium punctiforme B. et C. North Am. Fungi n. 394, 3364 Peck Rep. 23 on the St. Mus. — Sparsum, minutum, hypophyllum superficiale absque macula; sporulis oblongis, curvulis, 20 μ . longis.

Hab. in foliis Erigerontis, Massachussets Amer. bor. —

Perithecia punctiformia.

36. Leptothyrium Brassicæ Pr. Fung. Hoyersw. n. 19. — Erumpens, 3365hemisphærico-rugosum; peritheciis carbonaceis, atris, intus dilute fuscis, secedentibus; sporulis elongatis, utrinque rotundatis, albis, diaphanis, continuis.

Hab. in foliis Brassicæ oleraceæ, Hoyerswerda.

37. Leptothyrium glomerulatum Sp. Fungi Arg. Pug. II. n. 129. — 3366 Peritheciis in acervulos parvulos 1-3 mill. diam. coacervatis, matrici stromatice nigrificata innato-prominulis, atris, minutis, 100-120 μ . d. membranaceis, contextu parenchymatico-subindistincto, atro-fuligineo; sporulis ellipticis vel ovoideis, granuloso-farctis, hyalinis, $12 \approx 8$.

Hab. ad nervos petiolosque lpomææ gossypoidis in Cor-

rientes Argentinæ (Berg).

38. Leptothyrium Lychnidis B. et C. North Am. F. n. 393. — Maculis 3367 pallidis; peritheciis punctiformibus; sporulis oblongis, utrinque irregularibus (hollowed out), 10 μ. long.

Hab. in foliis Lychnidis Floris-cuculi, Alabama Amer.

bor. (Peters).

39. Leptothyrium Passifloræ B. et C. Cub. Fungi n. 553. — Macu- 3368 lis pallidis; peritheciis parcis irregularibus subpunctiformibus; sporulis oblongis utrinque obtusis hyalinis, 15 ≈ 5.

Hab. in pag. super. pilosa foliorum Passifloræ cujusdam trilobæ in insula Cuba. — Pili in areis expallentibus fere evanescunt.

40. Leptothyrium macrothecium Fuck. Symb. mycol. p. 383, tab. II. 3369 fig. 28. — Peritheciis (spuriis?) sparsis dimidiatis, pro genere majusculis, astomis, aterrimis: sporulis cylindraceo-fusoideis, 7-8 ≈ 1½-2, curvatis, hvalinis.

Hab. in foliis Potentillæ, Tormentillæ, Quercus, Ro-

sæ, Rubi in Germania et Italia.

B) Caulicolæ.

41. Leptothyrium vulgare (Fr.) Sacc. Mich. II. p. 113. Leptostroma 33 70 vulgare Fr. Symb. Myc. II. p. 599. — Peritheciis gregariis subcircularibus, planis, nitidis, 300-400 μ. diam., facile secedentibus, contextu parenchymatico obsolete radiato; sporulis botuliformibus, utrinque obtusiusculis, curvulis, 7 ≈ 1,5-2, hyalinis.

Hab. in caulibus emortuis Aconiti, Actææ, Senecionis, Lunariæ, Cimicifugæ, Teucrii etc. in Suecia, Gallia, Italia, Germania, Lusitania, Sibiria. — β. Angelicæ Karst. Symb. myc. Fenn. XIII. p. 13: sporulis elongatis utrinque obtusiusculis, rectis

v. leviter curvis, $5-6\approx l-1,5$. In caule Angelicæ in insula maris glacialis Kildin dicta.

42. Leptothyrium Scorodoniæ (Lib.) Sacc. Leptostroma Scorodoniæ 3371 Lib. in Herb. et Cooke in Grev. — Subrotundum, inæquale subconfluens, tenue, leve, nigrum, totum secedens, macula nigra; sporulis minutissimis, hyalinis.

Hab. in caule Teucrii Scorodoniæ in Arduennis. — Sec. Speg. est var. Lept. vulgaris.

43. Leptothyrium alpestre Sacc. Mich. II. p. 114. — Peritheciis pla-3372 no-scutatis, superficialibus, 200 y. diam., nitidis, astomis, contextu eximie radiato, margine non fimbriato; sporulis botuliformibus, parum curvis, utrinque subrotundatis, $8 \approx 1\%$, hyalinis.

Hab. in caule Sonchi alpini in Vogesis (Mougeor, una cum n. 108 Roum. F. Gall.).

44. Leptothyrium fædans (Ces.) Sacc. Sacidium fæduns Ces. in Kl. 3373 Herb. Myc. II. n. 61. — Peritheciis minutis disciformibus, dense gregariis maculasque effusas formantibus; sporulis exiguis allantoideis, 4 ≈ 0,7, hyalinis.

Hab. in caule Salviæ glutinosæ, Treviso et Vercelli in Italia boreali.

45. Leptothyrium Lunariæ Kunze Myk. Heft. II. p. 79. Sacc. Syll. ₃₈₇₄ II. p. 666. — Peritheciis minutis disciformibus, nigris, nitidis, centro umbonatis, radiato-contextis, pertusis, primo sparsis, dein confluentibus; sporulis anguste fusoideis, hyalinis, curvulis, 10-12 ≈ 2.

Mab. in caulibus et siliquis Lunariæ redivivæ in Germania et Austria. — Spermogonium Microthyrii Lunariæ.

46. Leptothyrium Medicaginis Pass. in Roum. Rev. Mycol. — Peri- 3375 theciis sparsis, punctiformibus, melleis tandem fuscis, centro perforatis, cellulis subhexagonis contextis; sporulis oblongis, apicibus rotundatis, bi-plurinucleolatis, hyalinis, 10-15 ≈ 3-5.

Hab. in caulibus languidis et aridis Medicaginis sativae pr. Parmam Ital. bor.

47. Leptothyrium Thalictri Thum. Contr. Myc. Lus. n. 582. — Pe- 3876 ritheciis gregariis, parvulis, globulosis, nigris, liberis, emersis: sporulis fusiformi-bacillaribus, utrinque subobtusatis, continuis, rectis vel raro subarcuatis, hyalinis, 10-12 = 2.

Hab. in caulibus emortuis Thalictri flavi, Villa Franca pr. Coimbra (Moller).

48. Leptothyrium Urticæ Pr. F. Hoyersw. n. 143. — Peritheciis soli- 3377 tariis vel connatis, gregariis pulvinatis, subplicatis, papillatis, atris,

secedentibus seu circumscisso-solutis; contextu perithecii celluloso; nucleis luteis fluxilibus gelatinosis; sporulis minutis numerosis obovato-cylindricis, pellucidis.

Hab. ad caules Urticæ dejectos, Hoyerswerda.

- 49. Leptothyrium scutiforme (Fr.) Sacc. Sphæria scutiformis Fr. 3378 Elench. II. p. 105. Peritheciis applanatis, orbicularibus, concentrice striatis, atris, intus concoloribus; nucleo centrali incluso atro.
 - Hab. ad caules herbarum exsiccatos pr. Rouen Galliæ (Lévieux). Perithecium exterius basi deficiens, tantum superum scutulas sistit orbiculares, applanatas, basi cauli adnatas, lineam equantes, extus concentrice striatas, opacas, atras, in centro umbonatas.
- 50. Leptothyrium Ptarmicæ (Desm.) Sacc. Mich. II. p. 114. Labrel-3379 la Ptarmicæ Desm. Exs. n. 149 ex parte? Peritheciis planoscutatis, elliptico-circularibus, 300 a. diam., astomis, contextu minute sinuoso-parenchymatico fuligineo; sporulis ovato-oblongis, 10 = 6-7, nubilosis, quandoque plasmate obsolete 2-partito, hyalinis, basidiis teretibus brevioribus suffultis.

Hab. in caulibus Achilleæ Ptarmicæ cultæ in Gallia. — Schizothyrii Ptarmicæ facile spermogonium.

51. Leptothyrium punctulatum Sacc. Mich. II. p. 113. — Peritheciis 3380 superficialibus, gregariis, plano-scutatis, elliptico-circularibus, subastomis, $150 \approx 100-120$, obsolete radiato-contextis, fuligineis, margine saturatioribus; sporulis falcato-allantoideis, $6 \approx 1.5$, utrinque acutis, hyalinis in strato proligero hyalino-celluloso subsessilibus.

Hab. in caulibus Scrophulariæ nodosæ et Dentariæ pinnatæ prope Lyon Galliæ (Therry).

52. Leptothyrium protuberans Sacc. Mich. II. pag. 351, 380 et 574. 3381 An *Phoma protuberans* Lév. saltem ex parte? — Pseudoperitheciis clypeato-convexis, majusculis, 1 mill. diam., atro-nitidis ab epidermide fungificata formatis; sporulis fusoideis, curvis, $7-9 \approx 1\frac{1}{2}-2$, hyalinis; basidiis filiformibus simplicibus vel furcatis, $20-25 \approx 1$.

Hab. in caulibus Potentillæ, Helianthemi etc. in Gallia, Italia et America boreali. — Species Lept. macrothecio Fuck. peraffinis.

III. In plantis monocotyledoneis et acotyledoneis.

53. Leptothyrium Calami Karst. Hedw. 1883, p. 180. — Peritheciis 3382 sparsis, elongato- vel oblongato- difformibus, planiusculis, nigris,

nitidulis, 0,2-0,4 mill. longis; sporulis elongatis vel fusoideis, hvalinis, rectiusculis, $3 \approx 0.5$.

Hab, in foliis putrescentibus Acori Calami prope Aboam in Fennia.

54. Leptothyrium subtectum Sacc. Mich. II. p. 529. - Peritheciis 3383 laxe gregariis, epidermide subvelatis, atris, nitidis, applanatis, 1/, mill. diam., subastomis, cellulis perithecii parenchymaticis fuligineis, in peritheciis basi dimidio minoribus; sporulis subfusoideis. curvulis, 18-20 = 2,5-3, 3-4-guttulatis, hyalinis, basidiis brevibus obtusis, sporula triplo brevioribus suffultis.

Hab, in foliis Luzulæ in silva Montello Italiæ bor. - A Lept. caricino Fr. differt peritheciis non secedentibus, a Lept. Luzulæ sporulis non globosis etc.

55. Leptothyrium Holoschæni (Dur. et Mont.) Sacc. Leptostroma Ho- 3384 loschæni Dur, et Mont. Fl. Alg. p. 615. Syll. Crypt. n. 661. — Minutissimum, punctiforme, orbiculatum, atrum, nitidum, Microthyrium quoddam referens, tandem secedens; sporulis oblongis simulate uniseptatis.

Hab. ad culmos Holoschæni, Alger (Durieu).

56. Leptothyrium litigiosum (Desm.) Sacc. Mich. II. pag. 113. Lepto- 3385 stroma litigiosum Ann. Sc. nat. 1843, p. 338. - Peritheciis circularibus, planis, 90-100 u. diam., gregariis v. sparsis, atris, sub vitro olivaceo-fuligineis, facile secedentibus, eximie radiatim textis: sporulis botuliformibus, $4-5 \approx 0.7-1$, hyalinis.

Hab. in stipitibus Pteridis aquilinæ in Gallia, Italia, Britannia, Lusitania, Fennia. - Verisimiliter spermogonium Microthyrii litigiosi.

57. Leptothyrium fragilissimum (Mont.) Sacc. Leptostroma fragilis- 3386 simum Mont. Cent. VI. n. 12. Syll. Crypt. n. 660. — Hypophyllum, difforme, convexo-planum, atrum, opacum, ruguloso-reticulatum; peritheciis punctiformibus confluentibus tandem in crustam orbicularem aut irregularem congregatis; sporulis lineari-oblongis.

Hab. in foliis Lindsem, Tahiti (J. LEPINE). - Habitus Dothidece granulosæ Hook. Teste Streinz Nom. Fung. p. 356 species hæc ad Erineum Grewianum Fèe ducenda est, evidentissime ex errore, Streinzio ceterum tam sollemni!

PIGGOTIA B. et Br. Ann. N. H. n. 503, t. V. f. 3. (Etym. a cl. Pigcor, botanophilo anglico). - Perithecia applanata, inæqualia, tenui-membranacea, initio cuticulà tenerrimà velata sæpe stellatim

digesta. Sporulæ oblongæ v. subcylindraceæ, continuæ, subhyalinæ v. flavidæ, basidiis teretiusculis suffultæ.

1. Piggotia astroidea B. et Br., Ann. N. H. n. 503, t. V. f. 3. Aste-3387 roma Ulmi Grev. F. Ed. p. 368. — Epiphylla; peritheciis vix prominulis, connatis, tuberculos minutos stellatim aggregatos formantibus; contextu perithecii minute parenchymatico, atro-olivaceo; sporulis oblongis basi truncatis, apice rotundatis, 8-10 = 5-6, minute 2-4-guttulatis dilute luteolis, basidiis cylindraceis fasciculatis apice truncatis luteolis suffultis.

Hab. in foliis vivis Ulmi campestris subinde flavido-maculatis.

2. Piggotia atronitens Oud. Mat. Myc. Neerl. II. p. 21. — Perithe- 3383 ciis spuriis maculiformibus irregularibus, aterrimis, nitidis, ramicolis, inferne deficientibus; sporulis minutissimis oblongis; basidiis filiformibus.

Hab. in ramulis Salicis prope Harlem Hollandiæ. — Affinis P. astroideæ, sed sporulis minoribus, peritheciis satis diversis distinguenda.

3. Piggotia Fraxini B. et C. North Am. Fungi n. 433 bis. — Perithe- 3389 ciis hypophyllis, 2-3 hic illic in cæspites punctiformes rugulosos congestis; sporulis oblongis minutis, 5-7 μ . longis.

Hab. in foliis Fraxini in Pensylvania (MICHENER).

- MELASMIA Lev. Ann. Sc. nat. 1846, p. 276, Sacc. Mich. II. pag. 9. (Etym. a melasma nigredo). Perithecia dimidiata, plana subastoma v. rimosa, membranacea, atra, stromate effuso, nigricante, sæpius phyllogeno innata. Sporulæ botuliformes, continuæ, subhyalinæ, basidiis sæpe bacillaribus suffultæ. Habitus et spermogonia Rhylismatum.
- Melasmia acerina Lev. Ann. Sc. nat. 1846, p. 276 et 1848 p. 252. 3390
 — Peritheciis epiphyllis adnatis gregariis v. confluentibus, maculas nigras suborbiculares pustulosas zona flavicante cinctas efficientibus, initio hemisphæricis dein complanatis, membranaceis, rugulosis, rufo-fuscis; sporulis botuliformibus, curvulis, 6-9 ≈ 1, hyalinis, utrinque obtusiusculis.

Hab. in foliis subvivis Aceris campestris, A. Pseudoplatani, A. platanoidis in Gallia, Germania, Italia, Britannia, Austria, Amer. bor. — Adest forma in foliis Myrsines prorsus similis in Texas Amer. bor.

2. Melasmia punctata Sacc. et Roum. Mich. II. pag. 632. — Maculis 3391 majusculis flavicantibus, obsoletis; peritheciis epiphyllis, deplanatis, atris, subsuperficialibus, minutissime areolato-contextis, astomis, demum subinde confluentibus; sporulis breve allantoideis 4-5 ≈ 1, hyalinis, in basidiis teretibus, longiusculis, simplicibus ramulosisque acro-pleurogenis.

Hab. in foliis Aceris Pseudoplatani et Ac. campestris in Arduennis, Austria et Ital. bor. — Mel. punctata Thum. Symb. Austr. II. p. 194 eadem videtur, sed descriptio sporularum non convenit.

3. Melasmia ulmicola B. et C. North Amer. Fungi n. 433. — Puncti- 3392 formis, prominula basi epidermide cincta e maculis rufis indefinitis oriunda; sporulis minutis oblongo-botuliformibus.

Hab. in foliis Ulmi americana, Massachusetts Amer. bor.

- Inter Melasmium et Piggotiam forma fere media.

4. Melasmia Caraganæ Thüm. Pilzfl. Sibir. n. 120. — Crustas am- 3393 phigenas, plus minusve cohærentes, atras, gibbosas, magnas in macula indeterminata, flavescenti formans; peritheciis congregatis vel confluentibus, rimosis, atris; sporulis subfiliformibus, apice acutatis, basi angustato-pedicellatis, paucicurvatis, 20 ≈ 3, hyalinis.

Hab. in foliis ramulisque vivis Caraganæ arborescentis

pr. Minussinsk in Sibiria asiatica.

Melasmia arbuticola Vize in Grevillea. — Gregaria, atrobrunnea, 3394 orbicularis, rugosa, e maculis rufo-brunneis oriunda; sporulis minutis, hyalinis, rectis, spermatioideis, 3,5 μ. longis.

Hab. in foliis Arbuti in California (HARKNESS).

6. Melasmia Berberidis Thum, et Wint, F. austr. n. 201. — Peri- 3305 theciis dense gregariis, parvis, in macula brunnea pagine superioris foliorum, interdum etiam in pagina inferiore, concavis, atris, nitidis; sporulis longe stipitatis, breviter cylindraceis, curvatis.

Hab. ad folia viva Berberidis vulgaris pr. Krems Austriæ (de Тиймех).

7. Melasmia Aviculariæ West. 5 Not. n. 70. Phyllosticia melano. 3396 placa West. Exs. n. 1141. — Peritheciis punctiformibus, exiguis, atris, numerosis, crebris indeque maculas nigricantes effusas formantibus; ostiolo poriformi; sporulis ovoideis, hyalinis, 3-3,5 ≈ 1,5.

Hab. in foliis Polygoni avicularis pr. Nieuport Belgii.

ACTINOTHECIUM Ces. Hedw. I. t. XI. f. 3 (Etym. actin radius, et theca pro perithecio). — Perithecia initio suborbicularia v. angu-

losa, scutata, radiatim dehiscentia, sæpe in radios 5-7 oblongos v. lanceolatos e centro stellatim divergentes divisa; radiis longitudinaliter anguste rimosis; contextu parenchymatico, radiato. Sporulæ ovato-oblongæ continuæ, hyalinæ. — Habitus fere Aulographi; nisi perithecia divisa, vix a Leptothyrio distinguitur.

1. Actinothecium caricicolum Ces. l. c. in Kl. Herb. myc. n. 1976. 3397

- Characteres generis.

Hab. in utraque pagina foliorum et in vaginis Caricis montanæ etc. in collibus Brescia Ital. bor. — Perithecia levia, nigra,

gregaria v. confluentia.

2. Actinothecium? Scortechinii Sacc. et Berl. — Peritheciis lineari- 3398 bus, rectis v. curvulis, subsuperficialibus, furcatis v. varie ramosis, utrinque rotundatis, plano-convexulis, longitudinaliter obtuse sulcatis (ibi tamen non dehiscentibus), poris inæqualibus hinc inde apertis, contextu minute et distincte parenchymatico, cellulis subcuboideis bifariam directis; sporulis non visis.

Hab. in pag. sup. Smilacis pr. Logan Queenslandiæ australis (Scortechini). — Etsi fructificatio ignota, huc pertinere videtur. — Cl. et Rev. В. Scortechini italo in remota Australia et

Malesia strenuo Botanices scrutatori dicata species.

LEPTOSTROMA Fr. Obs. II. p. 361. p. p. Sacc. Mich. II. p. 114, n. 955. (Etym. leptos tenuis, et stroma). — Perithecia dimidiata, subsuperficialia v. cuticula tenuissima initio velata, applanata, elongata, atra, sæpius nitidula, rima v. carina longitudinali plus minusve manifesta hysteriiformi vittata. Sporulæ ovoideæ, oblongæ v. allantoideæ, continuæ, subhyalinæ. — Speciebus perithecio subcirculari, carina v. rima long. carente instructis ad gen. Leptothyrium ductis, gen. Leptostroma Fr. ad species limito, quæ peritheciis elongatis et longitudinaliter subrimosis utuntur. — Multæ tamen species dubiæ, quia ignota fructificatio.

I. In dicotyledoneis lignosis.

.1) Species ramicolæ.

Leptostroma virgultorum Sacc. Mich. II. p. 350. — Peritheciis sub- 3300 superficialibus, plano-clypeatis, oblongis, atronitentibus, rimula spuria exaratis; sporulis tereti-oblongis, 4-5 ≈ 1, hyalinis, basidiis filiformibus fasciculatis, 20-25 ≈ 1, suffultis.

Hab. In sarmentis emortuis Rubi fruticosi pr. Rouen Gallie (Lefendre). — Certe spermogonium Hypodermatis virgulto-

rum f. Rubi, totoque cælo diversum a Lept. vulgari (Cfr. Tul. Carp. et Fuck. Symb. 258). — β . rubinum Karst. Symb. myc. Fenn. XIII pag. 13: peritheciis sparsis vel subgregariis sublanceolatis; sporulis elongato-fusoideis, sæpe curvulis $5-7 \approx 1$, basidiis $21-25 \approx 1$ suffultis. In sarmentis Rubi arctici in Fennia.

2. Leptostroma Rubi (Lib.) Speg. et Roum. Reliq. Lib. I. n. 611. Pe- 3400 risporium Rubi Lib. Exs. — Superficiale, innatum, gregarium, humiditate globosum, siccitate cupulato-collapsum, nitidum, atrum, poro pertusum; contextu tenui, parenchymatico-membranaceo, atro; sporulis e strato proligero pachydermatico oriundis, cylindraceis, pluriguttulatis, utrinque rotundatis 8-10 \(\alpha 2. \)

Hab. ad ramos exsiccatos Rubi in Arduennis et in Alpibus venetis. — Non vidi sed e diagnosi potius Phoma videtur.

3. Leptostroma scriptum Fr. Obs. II. p. 357. — Erumpens, elonga- 3401 to-lineare, flexuosum vel subrotundum, demum disco concaviusculo apertum.

Hab. in epidermide ramorum emortuorum Aceris Negundinis in Germania et Scandinavia. — Habitu Arthoniæ et vegetatione epixyla a reliquis diversum. Forma nulla constans.

4. Leptostroma acerinum Schw. Syn. Am. bor. n. 2196. — Subro 3402 tundum, gregarium, immerso-innatum, ex olivaceo nigrum, margine atriori, applanatum, rimosum.

Hab. in junioribus ramis Aceris pensylvanici, Mauch Chunk Amer. bor. — Affine L. fructigeno et L. Donacis.

5. Leptostroma rhoinum Schw. Syn. Amer. bor. n. 2188. — Puncta 3403 minima, undique sparsa, atra, non nitentia per lentem ovata, subrotunda offert; primum tectum, demum denudatum, centro collapsulo, costa rimæformi subelevata centrali; majora elliptico acuminata perithecia minoribus mixta.

Hab. in petiolis Rhois glabræ, Bethlehem Amer. bor.

6. Leptostroma Capreæ Lib. in Herb. et Cooke Grev. Lept. herba- 3404 rum f. Salicis Link Handb. III. p. 345 (teste Speg. et Roum. in Rev. Myc.). — Sparsum, rotundum vel ovatum, nigrum, nitidum; pulpa sporulosa alba; sporulis ovoideis.

Hab. in ramulis siccis Salicis capreæ in Arduennis.

7. Leptostroma confluens Cooke Grev. XII. p. 22. — Peritheciis or- 3405 bicularibus, applanatis, atris, demum confluentibus, in plagas irregulares aggregatis; sporulis ellipticis, hyalinis, 4 = 2.

Hab. in cortice Pini in Carolina inf. (RAVENEL).

8. Leptostroma piceum Schw. Syn. Am. bor. n. 2193. — Crusta qua- 3406

si nigro-picea, tenuiores caules undique circumdans, subcontinua, subindeterminata ambitu; huic insident perithecia ovata, oblonga et difformiter lobata, margine subelevato, superficie concaviuscula et rariter in crusta sparsa; rarius observantur perithecia conformia extra fines crustæ.

Hab. in dejectis stipitibus ignotis, Bethlehem Amer. bor. — Rarum sed distinctissimum.

B) Species foliicolæ et fructicolæ.

9. Leptostroma Pinorum Sacc. Mich. II. p. 632. — Peritheciis sub- 3407 seriatis, elongatis, atro-nitidulis minutis, convexiusculis, hysterioideis; sporulis cylindricis utrinque obtusiusculis, 8-10 ≈ 0,5, rectis, hyalinis; basidiis brevissimis fasciculatis.

Hab. in acubus Pinorum, Brionne Galliæ (MALBRANCHE). — An spermogonium Aulographi Pinorum Desm.?

10. Leptostroma Pinastri Desm. Ann. Sc. nat. 1843, p. 338. — Pe- 3408 ritheciis anguste linearibus, parallelis, $1 = \frac{1}{3}$ mill. diam., atris, epidermide initio tectis; sporulis cylindraceis, minutis, $6-8 = \frac{1}{3}-1$, hyalinis, basidiis subæquilongis fasciculatis suffultis.

Hab. in foliis Pini silvestris, P. maritimæ etc. in Gallia, Germania. — Homonyma species (in Grevillea) ex New Jersey sporulis ovoideis 3-4 µ. longis omnino differt. Leptostroma Pinastri in Sacc. Myc. Veneta n. 989 est, ut monui, Phoma acicola (Lév.).

11. Leptostroma durissimum Cooke in Grevillea. — Gregarium; per 3402 ritheciis atris, scutatis, irregularibus vel confluentibus, durissimis; sporulis linearibus, obtusis, 8 u. longis.

Hab. in foliis Pinorum, Aiken in Carolina australi.

12. Leptostroma laricinum Fuck. Symb. p. 256. — Peritheciis gre- 3410 gariis, minutissimis, orbicularibus, convexis, demum applanatis, plicatis, aterrimis, nitidis, in macula pallida; conidiis ovoideis minutissimis.

Hab. in foliis dejectis Laricis europææ in Rhenogovia. — Spermogonium Lophodermii laricini Fuck.

13. Leptostroma discosioides Winter Cont. Myc. Lus. n. 784. — Pe. 3411 ritheciis clypeatis, plerumque orbicularibus, interdum confluentibus, nitide atris, circa 120-200 ν . lat., in macula pallide lutea, indeterminata et irregulari, plerumque secus nervos primarios expansa gregariis, hypophyllis; sporulis minutissimis, bacillaribus, hyalinis, continuis, $3.5 \approx 08$.

Hab. in foliis aridis Lagerstræmiæ indicæ, Coimbra Lusitaniæ in horto botanico.

14. Leptostroma costatum Rabenh. Deutsch. Cr. Fl. n. 1283. — Pe- 3412 ritheciis suborbicularibus, 1/2 mill. diam., superne acutiusculis, longitrorsum regulariter, 7-10-sulcatis, brunneo-atris, intus pallidioribus.

Hab. in foliis emortuis Quercus pubescentis in Lombardia Ital. bor. (1841, RABENHORST).

15. Leptostroma punctiforme Wallr. Fl. crypt. n. 1395. — Perithe. 3413 ciis exiguis, punctiformibus, nigris, opacis, innatis, sparsis, arcte adhærentibus cum cubilibus adæquato.

Hab. ad pag. infer. foliorum vegetorum Salicis capreæ, Euphorbiæ Cyparissiæ, Rosæ, Buxi, Cratægi, Saussureæ in Germania et Sibiria.

16. Leptostroma areolatum (Fr.) Wallr. Fl. cr. n. 1399 Sclerotium 3414 areolatum Fr. S. M. II. p. 263 et Obs. II. p. 553, t. 7, f. 5. — Pseudostromate planiusculo opaco, nigro-fusco, foliorum parenchyma obreptando infarciente, demum bullato.

Hab. ad folia languida Pruni Padi et virginianæ in Suecia et Germania.

17. Leptostroma Camelliæ Zenker, Flora 1834, I. p. 211, t. III. fig. 3415 1-7. — Subhemisphæricum, demum depressum, leve, subnitidum, rufescens, centro umbonatum, umbone albido-lutescente.

Hab. in pag. inf. foliorum Camelliæ japonicæ, Jena Germaniæ. — «An vere fungus?»

18. Leptostroma fructigenum Schw. Syn. Am. bor. n. 2187. — Su- 3416 perficie glabra, punctiforme; peritheciis plerumque concentrice aggregatis, centro depresso, superficie subrugulosa ceterum nigris.

Hab. in ipsa glaberrima epidermide Pomorum, maturorum, præsertim vulgo dictorum Vandeeveo, Bethlehem Amer. bor.

II. In monocolyledoneis et acotyledoneis.

19. Leptostroma donacinum Sacc. Mich. II. p. 350 (*Lept. Donacis*). 3417 — Peritheciis lineolatim et parallele dispositis, innato-erumpentibus, anguste oblongis, $\frac{1}{4}$ mill. long. $\frac{1}{10}$ cr., nigris; rimula perexigua; sporulis tereti-oblongis, teretiusculis, $4 \approx 1$, hyalinis.

Hab. in culmis emortuis Arundinis Donacis in Gallia autrali.

20. Leptostroma Donacis Schw. Syn. Am. bor. n. 2186. — Orbicu- 3418

Leptostromaceæ, Hyalosporæ, Leptostroma.

643

latum, 1-2 lin. diam., scutiforme ambitu quasi lobatum, olivaceo-nigrum, applanato-elevatum, centro subumbonatum.

Hab. in culmis viridibus et subviridibus Arundinis Donacis, Salem Amer. bor. — An potius Actinothyrium?

21. Leptostroma Phragmitis Fr. in Kl. Herb. Myc. n. 786. — Peri- 3419 theciis lanceolatis, majusculis, atris $1-1^{1}/_{2}$ mill. long., $\frac{1}{3}$ cr., distincte rimosis; sporulis fusoideis, majusculis, $15-20 \approx 3^{1}/_{2}-4$, 4-guttulatis, curvulis, hyalinis.

Hab. in culmo Phragmitis in Suecia et prope Kappel Germaniæ (P. Magnus). — Diagnosim erui ex speciminibus Magnusianis, nam originalia mihi desunt; hinc dubium, an identicæ species sint.

22. Leptostroma? Poæ Lib. in Herb. et Cooke in Grevillea. — Sim- 3420 plex, rotundum, leve, planissimum, nigrum, substantia ceracea, fusca, totum secedens; sporulis globosis, hyalinis, stipitatis.

Hab. in Poa sudetica in Arduennis. — «An Leptothyrium? An spermogonium Scirrhiæ Poæ?»

23. Leptostroma cereale Schw. Syn. Am. bor. n. 2191. — Primum 3421 sub epidermide tectum, qua dejecta, nudum et innatum evadit, nigro-nitens, ellipticum, subelevatum utrinque acuminatum, centro late depresso; massa quadam alba implet interiorem partem.

Hab. frequens in culmis adhuc stantibus post messem, Bethlehem Amer. bor. — An Sclerotium? — Circum perithecia epidermidis tingitur nigro-fusca, efficiens maculas trilineares.

24. Leptostroma marginatum Schw. Syn. Am. bor. n. 2192. — Su- 3422 perficiale, oblongo-ovatum, sed longitudinaliter miro modo quasi effiguratum, confluens; interdum maculam efficiens semiuncialem, utrinque rotundatam, atram sed non nitentem; margine manifeste elevato cinctum est perithecium, superficie applanata minute tuberculosa; subdetergibile et ideo non innatum.

Hab. in culmis crassioribus Graminum rarius, Bethlehem in America boreali.

25. Leptostroma Zizaniæ Schw. Syn. Am. bor. n. 2194. — Magnum, 3423 piceum, nitens, bullatim effusum.

Hab. in defossis radicibus Zizaniæ prope Philadelphiam Americæ borealis.

26. Leptostroma micropunctum Cooke, Grev. XII. p. 22. — Grega- 3424 rium; peritheciis minutissimis, applanatis, atris, maculas suborbiculares efformantibus; sporulis linearibus, hyalinis, utrinque obtusis, $6 \approx 1.5$.

Hab. in Sabal in Carolina inf. (RAVENEL).

27. Leptostroma Smilacis Cooke in Rav. Fung. Amer. n. 20 et in 3425 Hedwigia 1878, p. 37. — Peritheciis scutellæformibus, orbicularibus, opacis, subrugosis; sporulis ovatis, minutis, hyalinis, $4 \approx 2.5$.

Hab. in caulibus Smilacis laurifoliæ, Aiken in Carol. inf.

28. Leptostroma Polygonatum Lasch in Kl. Herb. Myc. n. 382 et 3426 Rabenh. D. C. Fl. Fungi p. 142. — Peritheciis copiosis, hemisphæricis, gregariis, demum collabascentibus et subinde confluentibus, nigris, nitidis.

Hab, in caulibus siccis Convallariæ Polygonati et C.

multifloræ in Germania et Italia.

29. Leptostroma scirpinum Fr. Obs. II. p. 357, Syst. myc. II. p. 598 3427 Lept. xylomoides Fr. Obs. II. p. 197, t. I. f. 6. - Orbiculare, opacum, centro umbonatum, demum totum secedens, disco albido.

Hab. in calamis foliisque Scirpi lacustris, S. triquetri, S. Tabernæmontani, S. silvatici, S. maritimi in Suecia, Germania, Lusitania, Italia, Sibiria. — Duplex occurrit varietas: altera major, sparsa, absque macula; altera minor maculæ pallidæ nigrolimitatæ innata.

30. Leptostroma nitidum Wallr. Fl. cr. n. 1401, Lept. Iridis β. Ty- 3428 phæ Duby Bot. Gall. II. pag. 726. - Peritheciis oblongis sparsis demum confluentibus, aterrimis, nitidis, longitudinaliter striatis.

Hab. ad folia.viva Typhæ angustifoliæ in Thuringia et Rhenogovia.

31. Leptostroma Juncacearum Sacc. Mich. II. p. 352. — Peritheciis 3429 plano-clypeatis, ovatis, atro-nitidulis $\frac{1}{2}$ mill. long. rimula obsoleta notatis; contextu parenchymatico non radiato; sporulis copiosis, tereti-fusoideis, $4-5 \approx \frac{1}{2}$, obsolete 2-guttulatis, hyalinis, basidiis bacillaribus dense fasciculatis, $10 \approx 1-1^{1}/_{2}$, hyalinis suffultis.

Hab, in calamis emortuis Junci conglomerati v. affinis, Quevilly, Rouen; et in foliis Luzulæ silvaticæ, Francheville et in Arduennis nec non in Fennia. — An huc spectet L. Luzu- ℓw Lib., deficientibus exemplaribus dijudicare nequeo; certe quod describitur in Lamb. Myc. Belg. III. 105, alienum est. L. juncinum Fr., Sacc. Mich. II. 282 quoque prorsus differt. Quod sub hoc postremo nomine accepi a nonnulis mycologis, potius Phyllachoræ Junci (Fr.) initia sistit.

32. Leptostroma Luzulæ Lib. Exs. n. 75, sec. Lamb. Myc. Belg. III. 3430 p. 105. — Peritheciis subcircularibus, leniter umbonatis, atro-nitidis, sparsis, macula brunnea cinctis; sporulis globulosis.

Hab. in foliis subvivis Luzulæ maximæ et pilosæ in Arduennis, in Rhenogovia pr. Nassogne Belgii et in Sibiria.

33. Leptostroma caricinum Fr. Obs. II. p. 361. t. VII. f. 4. Syst. Myc. 3431 II. p. 598. — Subrotundum, inæquale, tenue, opacum, totum secedens, macula fusca.

Hab. in foliis Caricum, Eriophori angustifolii etc. in Suecia, Britannia et America boreali. — Maculæ rotundæ v. oblongæ, planæ, atræ, absque umbone, lineam haud longæ, demum ex nervis matricis rugosæ. Cave, ne pro Arthrinio juniore habeas.

34. Leptostroma inundatorum Schw. Syn. Am. bor. n. 2195. — Ef- 3432 figuratim effusum, atrum, confluens, innatum, applanatum, conflatum ex multis parvis peritheciis.

Hab. in culmo caricino magno, Philadelphia in Delaware Americæ borealis.

35. Leptostroma Pteridis Ehrenb. Sylv. Berol. p. 27, Kickx Fl. cr. 3433 Fl. I. p. 408. — Peritheciis oblongis, nigris, nitidis, innatis, tectis, dein prominulis, confluendo plagulas plus minusve longitudinaliter elongatas, irregulares formantibus, superficie granulosis.

Hab. in stipitibus siccis Pteridis aquilinæ in Belgio et Germania.

36. Leptostroma filicinum Fr. Syst. Myc. II. p. 599. Schizoderma fili-3434 cinum Ehrenb. Sylv. p. 15, Hypoderma striceforme DC. — Elongatum, difforme, leve, nigrum, adultum costà elevatà insignitum demumque totum secedens.

Hab. in stipitibus Pteridis, Osmundæ, Aspidii in Suecia, Germania, Italia, Britannia, Gallia et Amer. bor. — «Contextus perithecii plano-lanceolati, minute parenchymaticus, fuligineus, nucleo celluloso, subolivaceo, cellulis obtusis, 4-5 \approx 4. Suspicor nil esse nisi statum juvenilem *Rhopographi filicini* (Sow.) Nits.»

37. Leptostroma Aspidiorum Schw. Syn. Am. bor. n. 2190. — Mi- 3435 nutum, subrotundum, confluens, fusco-nigrum nitens, parum elevatum impressum, rarissime tractu lineari, sed plerumque effiguratim confluens, interdum simplex et punctiforme.

Hab. non rarum in stipitibus variorum Aspidiorum, Bethlehem Amer. bor.

III. In dicotyledoneis herbaccis.

38. Leptostroma herbarum (Fr.) Link. Handb. III. pag. 345. Sacc. 3436 Mich. II. p. 352. Sclerotium herbarum Fr. S. M. II. p. 599. — Peritheciis gregariis interdum confluentibus plano-convexiusculis,

epidermide tenui initio velatis, lanceolatis, rimà obsoletà notatis, fusco-nigris, nitidulis; sporulis botuliformibus vel fusoideo-curvatis, $4-6 \approx 1-1.5$, hyalinis.

Hab. in caulibus Euphorbiæ, Potentillæ, Lini, Cerastii, Teucrii, Delphinii, Cimicifugæ, et ramulis Salicis capreæ in Suecia, Germania, Gallia, Sibiria.

39. Leptostroma hypodermoides Sacc. Mich. II. p. 114. — Perithe- 3437 ciis gregariis, planiusculis, epidermide initio subvelatis, nigris, lanceolatis, 1 mill. long. $^{1}/_{3}$ cr. rima vix notatis, contextu parenchymatico fuligineo; sporulis cylindraceis, $5 \approx 1$, 2-guttulatis, hyalinis, basidiis filiformibus, $21 \approx 1$, rectis suffultis.

Hab. in caulibus Lamiorum, Conegliano Italiæ borealis, et Scrophulariæ aquaticæ pr. Rouen Galliæ. — Affine Leptostromati herbarum Link. (Schröt. F. Bad. n. 198), quod sporulis fusoideo-curvatis, $5-6 \approx 1^{1}/_{2}$, præcipue differt.

40. Leptostroma lineare Lev. Ann. Sc. nat. 1848, p. 249. — Peri- 3438 theciis innatis linearibus parallelis nigris hinc inde umbonatis secedentibus, basi stromatica alba; sporulis ellipticis continuis pellucidis.

Hab. ad caules Tanaceti vulgaris prope Parisios Galliæ.
41. Leptostroma lineatum Sacc. Leptostroma lineare Peck Rep. on 3439 the St. Mus. N. Y. nec Lev. — Peritheciis planis, tenuibus, subangulosis, initio epidermide tectis, striatis, rima v. carina medio

notatis, plerumque seriatim dispositis, nigris; sporulis minutis, oblongis, curvulis, hyalinis, 7-10 u. longis.

Hab. in caulibus emortuis Actææ spicatæ, Helderberg Mts. Americæ borealis.

42. Leptostroma Spirææ Fr. Syst. Myc. II. p. 599. *Xyloma Spirææ* $_{3440}$ Kunze Myk. Heft. l. p. 75. — Conglomerato-connatum, difforme, rugosum, nitidum, intus griseum, demum totum secedens; peritheciis minutis subhysterioideis (non radiato-contextis); sporulis falcatis, $6 \approx \frac{3}{4}$ -1, hyalinis, utrinque acutis.

Hab. in caulibus emortuis Spirææ Ulmariæ et S. Arunci etc. in Suecia, Britannia, Germania, Kamtschatka, Carolina. — Perithecia secedendo maculas fusco-nigras relinquunt. — Adest, teste Frieso, var. in Rubo cæsio.

43. Leptostroma sphæroides Fr. Syst. myc. II. p. 600. — Orbicu- 3441 latum, tenue, convexum, leve, secedens, atrum.

Hab. in caulibus herbarum e. g. Angelicæ in Suecia et Germania. — Punctiforme, regulare, vix nisi fructificans a Sphæ-

Leptostromaceæ, Hyalosporæ, Labrella.

riis caulicolis distinguendum, in ambitu passim dilatato-tenuissimum. — β. nitens (Schw.) Fr. l. c. Xyloma nitens Schw. Carol. n. 262: peritheciis semiglobosis. In Carolina.

44. Leptostroma Hyperici Schw. Syn. Am. bor. n. 2189. — Minutum. 3442 primum tenerrima epidermide tectum; erumpens demum ac denudatum, rotundum aut elliptico acuminatum, e fusco-nigrum, absque nitore, valde elevatum, subsclerotioideum, interdum lineare et ramosim confluens.

Hab. frequens in caulibus Hyperici perforati, Bethlehem Americæ borealis.

45. Leptostroma Glechomæ B. et Br. Ann. N. H. n. 1449. - Ma- 3443 culis helvolis; peritheciis irregularibus, minutis, epiphyllis; sporulis minutis oblongis.

Hab. in foliis Glechomæ hederaceæ in Scotia. — «An Leptothyrium?».

IV. Species vix nota

- 46. Leptostroma acerinum Opiz Sezn. p. 130. In agro Pragensi. 3444 47. Leptostroma Alceæ Kirchn. Lotos 1856, p. 204. — In Bohemia 3445
- meridionali. 48. Leptostroma Cichorii Kirchn. Lotos 1856, p. 204. — In Bohe- 3446 mia meridionali.
- 49. Leptostroma Impatientis Kirchn. Lotos 1856, p. 204. In Bo- 3447 hemia meridionali.
- 50. Leptostroma Rusci Kirchn. Lotos 1856, p. 204. In Bohemia 3448 meridionali.
- 51. Leptostroma Stellariæ Kirchn. Lotos 1856, p. 204. In Bohe- 3449 mia meridionali.
- 52. Leptostroma Ionicericolum Rabenh. Bot. Zeit. 1846, p. 46 (no. 3450 men) Kl. Herb. myc. n. 865 (Fiedler).
- 53. Leptostroma stipatum Fr. Summ. Veg. p. 371, Scler. Suec. n. 3451 192. — Lundæ.
- 54. Leptostroma Potentillæ Karst. Fung. Spetsb. n. 59. In foliis 3452 putrescentibus Potentillæ emarginatæ in Spetsberg.
- LABRELLA Fries Syst. Orb. Veg. I. p. 364 et Elench. II. pag. 149 (Etym. ob perithecium labris dehiscens). - Perithecia innata, sæpe spuria, atra, rotundata, v. inæqualia, rima dehiscentia. Sporulæ oblongæ v. fusoideæ v. globulosæ, continuæ, hyalinæ. - Pe-

rithecia subinde e matrice mutatà et atratà formata videntur. Species nonnullæ ad Subcupulatas seu Excipulaceas vergunt.

1. Labrella Coryli (Desm. et Rob.) Sacc. Cheilaria Coryli Desm. et 3453 Rob. Ann. Sc. nat. 1853, p. 226. — Maculis amphigenis irregularibus rufescentibus; peritheciis hypophyllis, raro epiphyllis, innatis, membranaceis, subgregariis perexiguis, rotundatis, pallide brunneis, rima longitudinali dehiscentibus, intus albidis; sporulis oblongis, subinde truncatis, clavulatis vel panduratis, hyalinis, 12-15 = 5.

Hab. in foliis Coryli Avellanæ in Gallia et Britannia. — Verisimiliter huc spectat Glæosporium Coryli Sacc. in quo tamen perithecium non videre licuit. Forte ad hoc genus quoque spectat Cheilaria Arbuti, quam sub Phyllosticta descripsi. Cfr. n. 118. Labrella Fagi Desm., deficiente prorsus perithecio, ad Glæosporium Fagi relata est.

Labrella cedrina Dur. et Mont. Fl. Alg., I. p. 599, t. 27, f. 7. 3454
 Mont. Syll. Cr. n. 990. — Peritheciis dimidiatis oblongis confluenti-linearibus elongatis, rima longitudinali dehiscentibus; sporulis oblongis pedicellatis 5 ≈ 1,5-2.

Hab. in foliis dejectis Cedri in summo monte Atlante Alge-

riæ (Durieu).

3. Labrella Potentillæ Fuck. Symb. p. 380. — Peritheciis sparsis, 3455 semiimmersis, basi applanatis, vertice conicis, duplo majoribus, quam Sphærellæ punctiformis, rima longitudinali dehiscentibus, atris; sporulis in globulum diaphanum, fuscescentem expulsis, cylindraceis, utrinque obtusis, simplicibus, hyalinis, 8 \u22222.

Hab. in pag. sup. foliorum languidorum Potentillæ argen-

tem pr. Œstrich Rhenogoviæ.

4. Labrella Sibbaldiæ Thum. Pilzfl. Sibir. n. 604. — Peritheciis cau- 3456 lincolis raro etiam foliicolis, punctiformibus, gregariis, emersis, atris, basi applanatis, vertice conoideis; sporulis ovoideis vel glo-boso-ellipticis, simplicibus, utrinque obtusiusculis, achrois, 8 = 5, in globulum fuscum, 20 μ. diam., expulsis.

Hab. in caulibus subvivis et emortuis Sibbaldiæ erectæ in campis siccis arenosis pr. Minussinsk Sibiriæ asiaticæ. — A Labrella Potentillæ Fuck. Symb. mycol. p. 380 differt magnitudine et forma sporularum.

5. Labrella Heraclei (Lib.) Sacc. Cheilaria Heraclei Lib. Cr. Ard. 3457 Exs. n. 254. — Maculis obsoletis; peritheciis aggregatis, hemisphærico-subconicis, atro-nitidulis, rima dehiscentibus, nucleo pallido; sporulis fusoideis, curvulis, pellucidis.

Hab. in caulibus Heraclei Sphondylii et H. flavescentis in Gallia. Germania et Sibiria asiatica.

6. Labrella Capsici Fr. Elench. II. p. 149. — Maculis fuscis; peri- 3458 theciis aggregatis inæqualibus; sporulis rotundatis.

Hab. in capsulis siccis Capsici in America bor. (Schweinitz).

- Maculæ oriuntur e stromate tenerrimo, epidermidi suffuso, translucente, peritheciis aggregatis in modum *Dichænæ rugosæ*, ceterum irregularibus, ab epidermide rupta quasi formatis.
- 7. Labrella Rosacearum Corda Ic. fung. III. p. 30, fig. 80. Pe- 3459 ritheciis erumpentibus ovatis, subdepressis, atris, nitidis, late rimosis; disco luteolo; sporulis erectis, subclavatis, pellucidis, intus granulosis; basidiis brevissimis caducis, crassiusculis.

Hab. in ramulis emortuis Rosarum pr. Prag Bohemiæ.

8. Labrella Punctum Corda Aul. t. I. f. 60, 1-3 et Ic. fung. II. p. 3460 25, f. 93. — Peritheciis minutissimis, punctiformibus, initio orbicularibus, dein ellipticis, disciformibus, fuscis, late rimosis, disco pallido; sporulis fusoideis, utrinque acutis, curvis vel flexuosis, subhyalinis, 12 μ. longis.

Hab. in ramulis emortuis lignosis decorticatis prope Reichenberg Bohemiæ.

9. Labrella circumscripta Pr. F. Hoyersw. n. 53. — Hypodermica, 3461 demum erumpens, elongata dein prominens, atra lineà circumscripta; labiis nigrescentibus; basidiis filiformibus; sporulis oblongis, subfusiformibus guttulatis.

Hab. in ligno, Hoyerswerda.

10. Labrella graminea Fr. Elench. II. p. 149. — Macula nulla; pe- 3462 ritheciis rotundato-difformibus; sporulis ellipsoideis.

Hab. in foliis gramineis exsiccatis in Gallia (Моидеот). — Sclerotium minus referunt tubercula opaca, atra, demum vero rima longitudinali fissa. Situs sparsus.

11. Labrella nitida Schw. Syn. Amer. bor. n. 2175. — Maculatim 3463 aggregata; peritheciis atronitentibus superficialibus, ovatis, regularibus, e plano-convexis, rima centrali dehiscentibus, nec clausis et sterilibus ut solent Leptostromata.

Hab. rara in caulibus Polygonati, Bethlehem Amer. bor.

SACIDIUM Nees in Kunze et Schm. Myc. Hfte II. pag. 64 em. Sacc. Mich. II. p. 9. (Etym. demin. a sacos scutum). — Perithecia dimi-



diata, clypeata, astoma, atra, membranacea, contextu (in speciebus typicis) anhisto, punctulato, nec vere celluloso. Sporulæ globulosæ v. ellipsoideæ, hyalinæ v. pallide coloratæ. — Me auctore, genus hoc a Leptothyrio optime dignoscitur ob contextum non cellulosum; sed quoad plurimas species contextus ignotus; hinc incertum, an huc an Leptothyrium spectent.

I. Species typicæ.

Contextus perithecii anhistus v. punctulatus.

Sacidium Spegazzinianum Sacc. Mich. I. p. 94 F. ital. t. 92. — 3464
Peritheciis sparsis, superficialibus, dimidiatis, scutiformibus, 300–
400 μ. diam., aterrimis, nitidulis, ostiolo nullo manifesto, contextu
fuligineo, punctulato; sporulis e mutua pressione initio subangulosis, dein perfecte sphæricis, 10-12 diam., e hyalino flavis, minute
pluriguttulatis.

Hab. in foliis languidis Aristolochiæ Clematitis, Urti-

cæ dioicæ, Conegliano Italiæ borealis.

2. Sacidium Venetum Speg. Mich. I. p. 487. — Peritheciis sparsis, 3465 superficialibus subglobosis, 200-250 μ., atro-cærulescentibus, nitidulis, astomis, contextu atro-fuligineo, punctulato; sporulis ellipticis, crassiuscule tunicatis utrinque rotundatis, 12-15 = 8-9, chlorino-flavidis, eguttulatis.

Hab. ad folia viva Salicis purpureæ, Conegliano Italiæ bor. rarissime. — Contextu peritheciorum cum S. Spegazziniano per-

fecte congruit.

3. Sacidium Ulmariæ Sacc. et Roum. Mich. II. p. 631. — Peritheciis 3466 gregariis epiphyllis, subsuperficialibus, nigris, scutiformibus, astomis, $\frac{1}{2}-1$ mill. diam., tunica olivaceo-fusca anhista; sporulis perfecte globosis, 4-5 μ . diam., dilutissime roseis, hyalino-nucleatis, intermixtis pedicellis (?), $4 \approx \frac{1}{2}$, hyalinis.

Hab. in pag. superiore foliorum Spirææ Ulmariæ in Ar-

duennis (LIBERT).

4. Sacidium chartarum Sacc. et Penz. Mich. II. p. 631. — Perithe- 3467 ciis sparsis, superficialibus, dimidiatis, astomis, atronitidis, infra mancis nucleumque albidum ostendentibus, 1/4 mill. diam.; contextu anhisto: sporulis globosis v. e mutua pressione anguloso-sphæricis, 14-18 μ. diam., intus granulosis, hyalinis.

Hab. in charta typographica putrescente uda Lyon Gallie

(THERRY).

II. Species quoad genus dubire. Contextus perithecii indescriptus.

5. Sacidium Symploci Cooke in Grevillea. — Epiphyllum; perithe- $_{3468}$ ciis punctiformibus, atris, scutatis, gregariis; sporulis subglobosis, hvalinis, $4 \approx 3$.

Hab. in foliis Symploci tinctoriæ, Aiken Carol. infer.

6. Sacidium Gleditschiæ Lev. Ann. Sc. nat. 1845, p. 64. — Hypo- 3469 phyllum; peritheciis gregariis punctiformibus applanatis rugulosis secedentibus, ostiolis pertusis vix conspicuis; sporulis ovoideis continuis, hyalinis.

Hab. in foliis Gleditschiæ in Texas Amer. bor.

7. Sacidium Ixerbæ Cooke N. Zeal. Fungi in Grevillea. — Epiphyl- 3470 lum, gregarium; peritheciis atris, prominulis, nitidis; sporulis subglobosis, hyalinis exacte globosis vel globoso-ellipsoideis, 7 = 6.

Hab. in pag. sup, foliorum Ixerbæ brexioidis, Tuaranga Novæ Zelandiæ.

8. Sacidium Gomphocarpi Kalch. et Cooke in Grev. 1880, p. 20. — 3471 Maculis suborbicularibus, fuscis; peritheciis gregariis, minimis, applanatis, membranaceis, fuscis; sporulis subglobosis, achrois, 4 v. diam.

Hab. in foliis Gomphocarpi fruticosi in Africa australi.

9. Sacidium Duriæi Mont. Fl. Alg., I. p. 613 et Syll. Crypt. n. 968. 3472 — Amphigenum; peritheciis sparsis aut confertis minutissimis, hemisphæricis fuscis, tandem elabentibus, punctilla alba relinquentibus; sporulis subgloboso-oblongis hyalinis.

Hab. in foliis siccis Dipsaci silvestris, Alger (Dunteu).

10. Sacidium junceum Mont. VII. Cent. pl. cell. n. 12. — Peritheciis 3473 gregariis minimis atris, albo-farctis, mox circumscissis ½ mill. d.; sporulis breviter subsemilunaribus, hyalinis, 6-guttulatis, utrinque acutiusculis.

Hab. in ramis Spartii juncei prope Montaud-lès-Miramas Galliæ (Castagne). — Affine Sac. Natricis, sed duplo minus.

11. Sacidium Sambuci Mont. in Castag., Supplém., p. 68 et Syll. 3474 Crypt. n. 969. — Peritheciis gregariis celluloso-membranaceis margine radiatis brunneis, apice poro pertusis tandemque deciduis; sporulis hyalinis oblongis breviter pedicellatis, biguttulatis.

Hab. in ramis emortuis Sambuci nigræ, Montaud Galliæ (Castagne).

12. Sacidium versicolor Desm. Ann. Sc. nat. 1853, p. 217. - Peri. 3475

theciis dimidiatis superficialibus, minutis, subgregariis, scutiformibus, udis convexiusculis, siccis, sæpe plicatis, margine vix radiatis, poro pertusis, initio argenteis, dein atris ac circumscissis; nucleo albido; sporulis oblongis, obtusiusculis, subfusoideis, $12 \approx 3-4$, 4-guttulatis.

Hab. in sarmentis vivis Rubi fruticosi in Gallia.

13. Sacidium vegetans Schw. Syn. Am. bor. n. 2198. — Peritheciis 3476 orbiculatis et difformibus superficialibus nigris, aggregatis sed non confluentibus in maculas; centro subelevato, pseudostiolato; superficie scutiformi rugosa.

Hab. in junioribus virgultis Staphyleæ, frigore tactis sed non omnino enecatis, Bethlehem Amer. bor.

- 14. Sacidium Mauritiæ Mont. Syll. Cr. n. 971, et Cent. II. n. 64, in 3477 Ann. 2, XIV. p. 330, *Phoma Mauritiæ* Mont. olim. Sphæriæforme, convexo-applanatum, leve, sub epidermide nidulans: pseudoperithecio fusco-nigro (a matrice mutata? suppeditato); sporulis ovoideis minimis fuscis.
- Hab. in petiolis Mauritiæ flexuosæ in Guyana (Leprieur).

 15. Sacidium Bryoniæ Schw. Syn. Amer. bor. n. 2199. Subepider- 3478 micum, tectum, punctiforme, minutissimum, atrum, ostiolo prorumpente subelevato; excussum, linquens foveolam pallidam cavam in epidermide.

Hab. in ramulis junioribus Bryoniæ radicantis, frigore enecatis, Bethlehem Amer. bor.

16. Sacidium Natricis Mont. Syll. n. 970. — Peritheciis gregariis mi- 3479 nutis dimidiatis convexis, demum circumscissis, atris, alho-farctis poroque pertusis; sporulis cymbiformi-ellipticis, 3-guttatis, longe pedicellatis.

Hab. in caulibus Ononidis Natricis in Galloprovincia (Castagne).

17. Sacidium alpestre Ces. riora 1855, p. 270. — Peritheciis scu- 3480 tiformibus, atris; sporulis lunulatis, utrinque obtusis.

Hab. in caule Aconiti Napelli in montibus Lombardia et Piemonte, socia Mazzantia Napelli.

18. Sacidium Chenopodii Nees in K. et Schm. Myk. Heft. II. p. 64, 3481 t. II. f. 2, Corda Aul. t. I. f. 54, 4-5. — Peritheciis convexiusculis, epiphyllis, sparsis, minutis, nigris, rugulosis; sporulis subglobosis, pellucidis.

Hab. in foliis Chenopodii viridis, Leyden Hollandiæ.

19. Sacidium microsporum Fr. Summa Veg. Scand. pag. 420. — He- 3482

misphæricum, punctiforme, astomum, magnitudine varium, atrum; sporulis minutis globosis.

Hab, in caulibus herbarum in Suecia.

20. Sacidium umbilicatum Fr. Summa Veg. Scand. p. 420.

Hab. in caule Cherophylli bulbosi in Suecia.

3483

- PIROSTOMA Fries Summa V. S. p. 395 (Subgenus) (Etym. peiro transfigo, et stoma). Perithecia dimidiata scutiformia subcircularia vel oblonga, membranacea, ostiolo umbilicato pertusa. Sporulæ globoso-ellipsoideæ, continuæ, fuligineæ.
- 1. Pirostoma circinans Fr. Summa V. S. p. 395, Fuck. Symb. p. 401, 3484 Coniosporium circinans Fr. S. M. III. p. 257, Sphwria stigmatella Wallr. Fl. Cr. n. 3797. Peritheciis scutiformi-elongatis. adpressis, primo sparsis dein aggregatis, subcircinantibus, atris subnitidis centro umbilicato-pertusis; sporulis globosis vel ovoideis, fuscis, 12 p. diam. circ.

Hab. in vaginis, foliis culmisque Phragmitis communis in Suecia, Germania, Gallia, Belgio, Italia, Mongolia.

- DISCOSIA Lib. Exs. n. 345, Fr. Summa p. 423 (Etym. a disco, ob perithecii formam). Perithecia dimidiata, disciformia, subsuperficialia, facile secedentia, atra, sæpe nitidula, astoma vel ostiolata, membranacea. Sporulæ oblongo-allantoideæ 2-pluriseptatæ, sæpius 3-septatæ, utrinque 1-ciliatæ, hyalinæ vel chlorinæ, basidiis bacillaribus suffultæ.
- Discosia Artocreas (Tode) Fr. Summa p. 423, Sphæria Artocreas 3485
 Tode Meckl. II. p. 77. Peritheciis gregariis, innato-liberis, orbicularibus, nigris, nitidis, primo convexis, levibus, mox circa ostiolum punctiforme depressis, demum collapsis, rugoso-plicatis; sporulis botuliformibus utrinque sub apice rotundato setigeris, 3-septatis, hyalinis vel flavidis, 14-22 ≈ 2-3,5, setis 10-15 μ. longis.

Hab. in foliis plurimarum arborum et herbarum, Ligustri, Platani, Quercus (Disc. quercicola De Not.), Fraxini, Fagi (Disc. faginea Lib.), Prunorum, Rosarum, Ruborum, Cratægi, Betulæ, Populi, Acerum, Sorbi, Vitis, Mali, Lauri, Cercidis, Abietum, Magnoliarum, Araliæ, Robiniæ, Coryli, Pæoniæ, Ranunculi, Pteridis etc. in Gallia, Germania, Britannia, Italia, America bor. vulgatissima. — f. Camphoræ Sacc. Mich. II. p. 281: sporulis solito longioribus, nempe $30 \approx 31/2$, tereti-curvulis, 3-septatis, hyalino-viridulis, setulâ $10 \approx 3/4$



054

Leptostromaceæ, Phragmosporæ, Discosia.

hyalina utrinque auctis. In foliis Camphoræ officinarum, Firenze Italiæ mediæ (Doct. O. Penzig).

2. Discosia alnea (Pers.) Berk. Outl. p. 318, Dothidea alnea Fr. 3486 Syst. Myc. II. p. 564, Xyloma alneum Pers. Syn. p. 108, Phlyctidium nitidum Wallr., Discosia nitida Lév. — Amphigena, sparsa, subrotunda, nigra, nitida, initio convexo-plana dein depressa, collapsa rugoso-plicata; sporulis 3-septatis, utrinque oblique 1-aristatis, 20 µ. long.

Hab. ad folia subviva et languida Alni glutinosæ, A. incanæ, Magnoliæ in Suecia, Germania, Britannia, Amer. bor.

— Probabiliter mera forma Disc. Artocreatis.

3. Discosia clypeata De Not. Micr. Des. III. n 7, nec in Saggio Di- 3487 scosia f. IV. quæ potius D. Artocreas spectat, Fres. Beitr. p. 68, t. VIII. f. 4. — Peritheciis scutiformibus, majusculis, 1/2 mill. d., subcircularibus, atris, demum rugulosis; sporulis fusoideis, utrinque acutis et ex ipso apice setula sporulam subæquante auctis, 3-septatis, non constrictis, subhyalinis, 16-17 \(\mu\). longis.

Hab. in foliis dejectis Quercus, Fagi, Rosæ, Cratægi et Populi in Italia et Germania. — Teste Fresenio ab D. Artocreate peritheciis majoribus et setulis ex ipso apice sporularum oriundis facile dignoscitur.

4. Discosia vagans De Not. Att. Accad. Tor. 1849, p. 354, f. 5. — 3488 Peritheciis hypophyllis v. epiphyllis sparsis v. gregariis scutato-convexis, circularibus, oblongis v. reniformibus ostiolo breve papillato pertusis; sporulis teretiusculis, subrectis, utrinque acutiusculis, 3-septatis, non constrictis, utrinque sub apice setula patula sporulam dimidiam vix æquante auctis, 24-26 ≈ 3-3,5.

Hab. in foliis Arbuti Unedonis et Lauri nobilis, Genova Italiæ borealis.

5. Discosia maculicola Gerard in Ellis North Amer. Fungi n. 1175. $_{3489}$ — Maculis epiphyllis vagis arescendo candicantibus, anguste fuscocinctis; peritheciis dense gregariis, initio velatis, dein erumpentibus, scutatis, centro exiguo umbonato-pertusis, $150-170~\mu$. diam., atris; sporulis tereti-fusoideis, utrinque obtusiusculis, $14-15 \approx 3-3.5$, 3-septatis, chlorino-hyalinis, infra apices utrinque 1-ciliatis, ciliis 6-7 μ . longis.

Hab. in foliis languidis Gaultheriæ procumbentis, Newfield N. J. Amer. bor.

6. Discosia Iulia Speg. Mich. II. p. 281. — Peritheciis sparsis, ma- 3490 gnis, ½-1, ½ mill. diam., disciformibus, lenticularibus, siccitate

rugulosis, atris; sporulis cylindraceo-fusoideis inæquilateralibus, utrinque acutiuscule rotundatis, sublateraliter utrinque uniciliatis, granuloso-farctis, continuis, minutis, $5-6 \approx 1^1/_2$, hyalinis; cilio superiore 2 μ . long. inferiore 3-4 μ . long.

Hab. ad folia Populi Tremulæ in montants prope Belluno Italiæ bor. rarissime. — Species prædistincta, astoma.

7. Discosia rugulosa B. et C. North Amer. Fungi n. 432. — Peri- 3491 theciis orbicularibus, opacis, rugosis.

Hab. in foliis Caryæ albæ, Alabama, Florida, Chautauqua Lake Amer. bor. — A Disc. Arlocreate præsertim peritheciis rugulosis et opacis mox distinguenda.

8. Discosia deflectens Sacc. Mich. II. p. 145. — Peritheciis (spuriis?) 3492 in maculis foliorum epiphyllis dealbatis gregariis, epidermide velatis, scutatis, nigris, 130 micr. diam., late pertusis; sporulis fusoideis, curvulis, 15-18 = 2½, 1-3-septatis, hyalino-chlorinis, infra apices setulas obliquas gerentibus.

Hab. in foliis Ilicis opacæ in Carolina infer. (RAVENEL). — A Disc. minima B. et C., Ilicis quoque incola differt peritheciis pro genere mediocribus, nec minimis, sporulis longioribus, septulatis etc.

Discosia ostiolata B. et C. North Pac. Exp. n. 128. — Perithe- 3493
 ciis elevatis; ostiolo distincto prominulo perforato; sporulis 3- septatis.

Hab. in foliis emortuis in insula Bonin Maris Pacifici.

Discosia minima B. et C. North Amer. Fungi n. 432^{bis}. — Pe- 3494 ritheciis gregariis minutissimis, innumeris, punctiformibus; sporulis 36-37 μ. longis, continuis (ob immaturitatem?), utrinque appendiculatis.

Hab. in foliis Ilicis et Tiliæ pubescentis Alabama et-Florida Amer. bor. — Sporulæ potius forte 12-13 μ . tantum longæ; videtur enim præ minutie peritheciorum legendum in diagnosi non .0015 (=37 μ .), sed .0005 (=13 μ .).

11. Discosia pleurochæta Mont. et Dur. Fl. Alg. I. pag. 587, t. 27 3495 f. 10, et Syll. Crypt. n. 994. — Amphigena; peritheciis sparsis rotundatis, convexis, apice late pertusis tandem rimose dehiscentibus; sporulis fusiformibus, 3-4-septatis, citra utrumque finem filamento hyalino instructis, 30 = 2,5.

Hab. in foliis dejectis Phillyreæ latifoliæ, Alger (Durieu).

12. Discosia minuta Ces. in Kl. Herb. Myc. n. 1961. — Peritheciis 3496 gregariis planiusculis, epiphyllis; sporulis cylindraceis obsolete cur-



vulis; aristis ex apicibus potius emergentibus, axi sporularum fere parallelis iisque æquilongis.

Hab. in foliis in Italia boreali.

13. **Discosia elliptica** Fres. Beitr. Myk. p. 67, t. VIII. f. 9-11. — 3467 Peritheciis subsuperficialibus scutatis ellipticis, ½ mill. long., atris. levibus, centro pertusis; sporulis tereti-fusoideis rectis, 3-septatis non constrictis, hyalinis, infra apices setula sporulam dimidiam æquante utrinque auctis, 15 μ. longis (absque ciliis).

Hab. in pag. inf. corticis Salicis capræte, Cassel Germaniæ (Riess).

14. Discosia Vitis Schulz.. Pirotta Funghi Vit. pag. 64. — Pseudoperitheciis simplicibus, subsphæricis, superne nigris, duris; basidiis simplicibus, hyalinis; sporulis fusiformi-ovatis, curvulis, triseptatis, ad septa parum constrictis, loculis extimis appendiculai ciliiformi ornatis, hyalinis, 22 ≈ 5.

Hab. in ramis Vitis viniferæ in Hungaria.

15. Discosia strobilina Lib. Exs. n. 346, Fres. Beitr. p. 68, t. VIII. 3499 f. 7-8. — Peritheciis scutatis, subsuperficialibus, ½-½ mill. diam., atris, subcircularibus, levibus, centro brevissime papillulato-pertusis; sporulis tereti-fusoideis, rectiusculis, infra apices setula sporulam dimidiam superante, obliqua utrinque auctis, 3-septatis, non constrictis, 18-20 µ. longis, subhyalinis.

Hab. ad conos dejectos Abietum in Arduennis.

16. Discosia Passerinii Sacc. Mich. I. p. 491, F. ital. tab. 435. — 3500 Peritheciis disciformibus, tandem concavis, nigris, minutis; sporulis falcatis, $20 \approx 4$, 4-locularibus, loculis 2 inter. olivaceis, extimis ciliisque, $20 \approx \frac{1}{2}$, hyalinis.

Hab. in caule Epilobii Dodonæi, Vighessio prope Parmam Ital. bor. (Passerini).

Discosia grammita B. et C. North Amer. Fungi n. 431^{bis}. — Pe- 3501 ritheciis hysteriiformibus opacis; sporulis oblongis, 3-septatis, 20 p. long. appendicibus terminalibus, acutis.

Hab. in Pæonia arborea putri, New England Amer. bor. (Russel).

18. Discosia smilacina De Not. Atti Accad. Tor. 1849, p. 354, f. VI. 3502

— Peritheciis scutiformibus, subsuperficialibus, medio subexcavatis et obsolete pertusis, ¼ mill. d.; sporulis teretiusculis, subrectis, utrinque obtusiusculis et sub apice setula sporulam dimidiam æquante auctis, 3-4-septatis, subhyalinis, 25 ≈ 3-3,5.

Hab. in foliis siccis Smilacis asperæ prope Genova Ital.

Leptostromaceæ, Phragmosporæ, Entomosporium.

657

bor. — An *Discosia maculicola* Gerard (citata in Peck Rep.) in foliis Smilacis rotundifoliæ in America bor. diversa sit, non liquet; sed *D. maculicola* Gerard in Ellis North Amer. Fungi n. 1175 differt.

Discosia Podisomatis C. et Ellis in Grevillea. — Sparsa; peri- 3503 theciis convexis, minimis, opacis; sporulis cylindraceis, curvulis, triseptatis, 25-28 μ. longis, utrinque aristatis.

Hab. in Podisomate macropode vetusto, New Jersey Amer. bor.

ENTOMOSPORIUM Lev. in Moug. St. Vog. n. 1457, Morthiera Fuck. Symb. Myc. p. 382 (Etym. entoma insecta et spora). — Perithecia hemisphærico-applanata, astoma, atra (spuria?). Sporulæ cruciato-tetrameræ, nempe didymæ accedentibus 2 loculis lateralibus, omnibus vero setigeris. Basidia mox decidua.

1. Entomosporium maculatum Lev. in Moug. St. Vog. n. 1458. — Pe- 3504 ritheciis epiphyllis applanatis, atris, subastomis; sporulis more generis, 4-cellularibus, $18-20 \approx 12$, hyalinis, cellulis lateralibus minutis depressis, stipite filiformi $20 \approx \frac{3}{4}$, setulis lateralibus prælongis.

Hab. in foliis Piri communis in Gallia. — β . domesticum Sacc. Mich. II. p. 115, Morthiera Mespili Sacc. M. V. n. 525: sporulis $18 \approx 8$, cellulis lateralibus depressiusculis, stipite $15 \approx \frac{3}{4}$, setulis lateralibus prælongis., — In foliis Mespili germanicæ in Italia bor et in Arduennis. — γ . Cydoniæ C. et Ellis in Grev. t. 99, f. 3: sporulis $12-15\approx 6-7$. — In foliis Cydoniæ in America boreali.

Entomosporium Mespili (DC.) Sacc. Mich. II. p. 115, E. brachia - 3505 turn Lév. in Moug. Stirp. Vog. n. 1457, Morthiera Mespili Fuck. Symb. Myc. p. 382. — Affinis præcedenti, sed sporulæ 25 ≈ 15, cellulis lateralibus paullo majoribus et rotundioribus, stipite crassiore 20 ≈ 2½; setulis lateralibus brevioribus.

Hab. in foliis Cotoneastri tomentosæ, C. vulgaris, Piri silvestris in Gallia, Helvetia et Germania.

3. Entomosporium Thümenii (Cooke) Sacc. Morthiera Thümenii Cooke 3506 in Thüm. Myc. Un. n. 895. — Peritheciis numerosis, epiphyllis vel interdum etiam amphigenis, applanatis, orbiculatis, rugulosis, sæpe confluentibus, atris in macula parva, fusca; sporulis illis Entomosporii Mespili similibus sed loculis superioribus, 14 \(\times\)9, loculis in-

ferioribus 8 μ . longis, ciliis omnibus æquilongis, 9-12 μ . longis, hyalinis.

Hab. ad folia viva Cratægi glandulosæ et Cratægi flavi in Carolina australi (RAVENEL), et Cratægi sanguineæ in Sibiria asiatica (Martianoff).

- actinothyrium Kunze Myk. Heft. II. p. 81 (Etym. actin radius, et thyreos scutum, perithecium). Perithecia dimidiata, clypeata, subsecedentia, non vel vix hiantia, membranacea, margine eximie radiato-fimbriata, atra. Sporulæ filiformes, hamatæ, hyalinæ.
- 1. Actinothyrium graminis Kunze Myk. Heft. p. 81, t. II. f. 3. 3507 Peritheciis sparsis vel gregariis, dimidiatis planis, subcircularibus, centro subumbonatis, margine conspicue radiato-fimbriatis, atris, 1/2-1 mill. diam.; sporulis filiformibus, hamatis, 50 = 1, hyalinis.

 Hab. in foliis siccis Moliniæ, Holci, etc. in Germania, Gallia. Italia. Britannia. Belgio.
- 2. Actinothyrium cubense B. et C. Cub. Fungi n. 552. Peritheciis 3508 latissime conicis, quandoque confluentibus e cellulis radiantibus medio compactioribus constructis; basidiis longis; sporulis filiformibus quandoque curvatis.

Hab. in pag. super. foliorum in insula Cuba.

3. Actinothyrium caulincolum Schw. Syn. Amer. bor. n. 2178. — Or. 3509 biculatum, satis elevatum, nigro-fuscum subumbonatum, epidermide tectum, margine radianti fibrilluloso; peritheciis sparsis sed numerosis, multo majoribus quam in ceteris speciebus.

Hab. in caulibus, præsertim Eupatorii, Bethlehem Amer. bor.

4. Actinothyrium Magnoliæ Schw. Syn. Amer. bor. n. 2177. — Ple 3510 rumque peritheciis concentrice sitis, tamen sparsis punctiformibus e fusco nigris, nidulantibus in foveolis nervorum in pagina aversa, applanato-convexulis, orbiculato-scutiformibus.

Hab. in aversa pagina foliorum Magnoliæ glaucæ, Philadelphia Amer. bor. — "Actinothyrio graminis satis affine, sed in ambitu fere integrum nec tam radiato-fibrosum; hinc potius Leptothyrium mihi videtur".

MELOPHIA Sacc. (Etym. melas et ophis anguis, h. e. Melasmia scolecospora), Melasmia Lév. p. p. — Perithecia applanato-convexula, dimidiata, molliuscula, atra v. glauco-fusca demum corrugata, astoma v. irregulariter dehiscentia. Sporula: elongato-serpentiformes, continuæ, hyalinæ. — Est Melasmia scolecospora.

1. Melophia ophiospora (Lev.) Sacc. Melasmia ophiospora Lev. Ann. 3511 Sc. nat. 1848, p. 253. — Peritheciis gregariis subscriatis, adnatis, basi applanatis, convexis, levibus, demum depressis corrugatis, intus extusque nigris; sporulis elongatis, continuis, utrinque obtusis, curvatis vel serpentiformibus.

Hab. in cortice Quercus Suberis in Corsica et Gallia meridionali.

2. Melophia Woodsiana Sacc. et Berl. — Peritheciis remote sparsis, 3512 epiphyllis, subiculo tenui depresso albo filamentoso maculiformi insertis, facile secedentibus convexis, scutatis, astomis, glauco-fuscis, 1/5-1/4 mill. diam., contextu tenui-membranaceo, olivaceo-fusco, minute sed distincte parenchymatico; sporulis cylindraceis, utrinque obtusiusculis, 30-35 = 1,5, ferri equini vel circuli ad instar arcte convolutis, pluri-nucleolatis, hyalinis; basidiis bacillaribus, $10 \approx 1$, hyalinis fasciculatis suffultis.

Hab. in foliis (phyllodiis) languidis Acaciæ harpophyllæ in Queenslandia australi (Scortechini). - Sporulæ Trichinam spiralem optime æmulantur. - Forte novi generis typus, cl. Woodsto de historia naturali Malesiæ optime merito dicatus.

LEPTOSTROMELLA Sacc. Mich. II. p. 632. (Etym. a Leptostroma. cui analogum genus). - Perithecia epidermide velata, dein subsuperficialia, elongata, depresso-convexa, subcarbonacea, atra, rimâ plus minus manifestà longitudinaliter exarata. Sporulæ bacillares vel filiformes, continuæ vel septulatæ, hyalinæ. Basidia bacillaria. - Est hoc genus meo sensu quasi Leptostroma sed sporulis bacillaribus ornatum.

1. Leptostromella hysterioides (Fr.) Sacc. Leptostroma hysterioides 3513 Fr. S. M. II. p. 599. - Oblongum, nigrum, varium, centro tumidulo substriatulo secedens; sporulis cylindraceis, curvatis, 20-25 ≥2, uniserialiter pluriguttulatis, hyalinis.

Hab. in caulibus languidis vel emortuis Pæoniæ, Dianthi. Cytisi, Peucedani, Cynanchi in Suecia, Germania, Italia, Sibiria. — Var. graminicolum De Not. Micr. ital. III. f. 6: peritheciis oblongis, quam typi minoribus, utrinque obtusiusculis, depressis, atris, facile secedentibus, sulcatis; sporulis bacillari-fusoideis, curvis 16-18 a. longis. In vaginis culmisque Molinia carruleæ in Italia bor. - Forma semper oblonga (elliptica vel elongata), striis longitudinalibus e caule tenuissimis; sed minime undique rugulosum. Color plerumque opacus.



2. Leptostromella tenuis Sacc. Mich. II. p. 282 (Leptostroma). — 3514 Peritheciis gregariis, innato-erumpentibus, elongatis, modice depressis, minutis, $\frac{1}{2} \approx \frac{1}{5}$, astomis, fuligineo-parenchymaticis; sporulis cylindraccis, curvulis, $20-22 \approx 3\frac{1}{2}$, hyalinis.

Hab. in caule Lepidii graminifolii, Padova Italia bor.

3. Leptostromella septorioides Sacc. et Roum. Mich. II. p. 632. — 3515 Peritheciis amphigenis, parallele gregariis, innato-erumpentibus, oblongis, $\frac{3}{4} \approx \frac{1}{3}$ mill. d., rimula notatis, atris, carbonaceis; sporulis bacillaribus leniter curvis, $40-45 \approx \frac{3}{5}-1$, hyalinis, continuis, basidiis fasciculatis dimidio brevioribus suffultis.

Hab. in foliis aridis graminum (Fostucæ?) in Arduennis (LIBERT).

4. Leptostromella juncina (Fr.) Sacc. Mich. II. p. 352, Leptostroma 3516 juncinum Fr. Syst. Myc. II. p. 598. — Peritheciis planis, elongatis, elypeatis, atro-nitentibus, astomis, rimula parum distincta exaratis; sporulis cylindraceis, curvulis, 25-30 ≈ 2, pluriguttulatis, hyalinis, basidiis brevissimis crassiusculis suffultis.

Hab. in calamis Junci effusi, J. conglomerati etc. in

Suecia, Italia, Germania, Gallia, Britannia.

5. Leptostromella pteridina Sacc. et Roum. Mich. II. p. 353. — Pe. 3517 ritheciis elongatis applanatis, initio epidermide velatis dein subsuperficialibus, $1^{1}{}_{2}' \approx {}_{2}'$, nigris, non sulcatis; sporulis filiformi-acicularibus, $80 \approx 1^{1}{}_{2}'$, hyalinis, 5-6-septatis.

Hab. in stipitibus Pteridis aquilinæ, socia Didymella Hy-

phene (Cooke) in Algeria (Doct. TRABUT).

6. Leptostromella filicina (B. et C.) Sacc. Cryptosporium filicinum 3518 B. et C. North Amer. Fung. n. 397. — Nitidum, hysteriiforme; conidiis curvatis, filiformibus; basidiis sporula dimidio brevioribus.

Hab. in stipitibus emortuis Filicum, Alabama, Osmundæ cinnamomeæ in Pensylvania.

REPERTORIUM

SPHÆROPSIDEARUM LEPTOSTROMACEARUM

SECUNDUM MATRICES

Dbs. A. indicat Actinothecium. — Ar. Actinothyrium. — D. Discosia. —
E. Entomosporium. — L. Leptothyrium. — La. Leptostroma. — Lb. Labrella. — Le. Leptostromella. — M. Melasmia. — Me. Melophia. — P. Piggotia. — Pr. Pirostoma. — S. Sacidium.

N. 3330 — 3518 citantur 330 — 518

Abies - L. 334. - D. 499. Acacia - Me. 512. Acer — L. 351. — M. 390. 391. — La. 401, 402, 444, — D. 485. Achillea - I. 379. Aconitum - L. 370. - S. 480. Acorus - L. 382. Actea - L. 370. 439. Ailanthus - L. 348. Alnus - L. 333. - D. 486. Angelica - L. 370. - La. 441. Aralia - D. 845. Arbutus — M. 394. — D. 488. Aristolochia - S. 464. Arundo - La. 417. 418. Aspidium — La. 434, 435. Aster — L. 363.

Berberis — M. 395. Betula — L. 335. — D. 485. Brassica — L. 365. Bryonia — S. 478. Buxus — La. 413. Camellia - La. 415. Camphora -- D. 485. Capsicum - Lb. 458. Caragana — M. 393. Carex - A. 397. - La. 431. 432. Carya - D. 491. Castanea - L. 341. Celastrus - L. 355. Cerastium - La. 436. Cerasus — L. 343. Cercis - D. 485. Cedrus - Lb. 454. Chenopodium - S. 481. Cichorium - La. 446. Cimicifuga — L. 570. — La. 436. Clitorea — L. 362. Coffea - L. 349. Coniferæ - L. 361. Convallaria - La. 426. Coriaria - L. 352. Cotoneaster - E. 505. Corylus - L. 331, 332, - Lb, 453, -D. 485.

Cratægus — I.a. 413. — D. 485. 487. — E. 506. Cydonia — E. 504. Cynanchum — Le. 503. Cytisus — L. 356. — Me. 513.

Delphinium — La. 436. Dentaria — L. 380. Dianthus — Le. 513. Dipsacus — S. 472.

Epilobium — D. 500. Erigeron — L. 364. Eriophorum — La. 431. Eupatorium — Ar. 508. Euphorbia — La. 413. 436.

Fagus — L. 336. — D. 485. 487. Filicaceæ — Le. 518. Fraxinus — P. 389. — D. 485.

Gaultheria — D. 489. Glechoma — La. 443. Gleditschia — S. 469. Gomphocarpus — S. 471. Graminaceæ — La. 422. — Le. 515.

Helianthemum — L. 381. Heracleum — Lb. 457. Holeus — Ar. 507. Holoschænus — L. 384 Hypericum — La. 442.

Ilex — L. 353. — D. 492. 494. Impatiens — La. 447. Ipomæa — L. 366. Iuncus — La. 429. — Le. 516. Ixerba — S. 470.

Lagerstremia — La. 411. Lamium — La. 437. Larix — La. 410. Laurus — D. 485. 488. Lepidium — Le. 514. Ligustrum — D. 485. Lindsæa — L. 386. Linum — La. 436. Lonicera — L. 330. — La. 450. Lunaria — L. 370. 374. Luzula — L. 383. — La. 429. 430. Lychnis — L. 367.

-Magnolia — D. 485, 486, — Ar. 510, Malva — La. 445, Mauritia — S. 477, Medicago — L. 375, Mespilus — E. 504, Molinia — Ar. 507, — Le. 513, Myrtaceæ — L. 346,

Ononis — S. 479. Osmunda — La. 434. — Le. 518.

Pæonia — D. 485, 501. — Le. 513.

Passiflora — L. 368.

Peucedanum — Le. 513.

Phillyrea — D. 495.

Phragmites — L.a. 419. — Pr. 484.

Pinus — L. 334. — La. 40₹ 407, 408, 409.

Pirus — L. 359, 360. — La. 416. — D. 485. — E. 504, 505.

Platanus — D. 485.

Poa — La. 420.

Podisoma — D. 503.

Polygonatum — Lb. 463. Polygonum — M. 396. Populus — L. 337. — D. 485. 487. 490. Potentilla — L. 369. 381. — La. 436. 452. — Lb. 455.

Prunus — L. 344. — La. 414. — D. 485.

Pteris — L. 385. — La. 133. 434. — D. 485. — Le. 517.

Quereus — L. 338, 339, 340, 347, 369, — La. 412, — D. 485, 487, — Me. 511.

Ranunculus — D. 485. Rhus — La. 403. Robinia — D. 485. Rosa — L. 342. 369. — La. 413. — Lb. 459. — D. 485. 487.

- Rubus L. 345, 354, 369, La, 399, 400, 440, — S. 475, — D. 485, Ruscus — La, 448,
- Sabal La. 424. Salix — P. 388. — La. 404. 413. 436.
- S. 465. D. 485. 497. Salvia — L. 373.
- Sambucus S. 474.
- Saussurea La. 413. Scirpus — La. 427.
- Scrophularia L. 380. La. 437.
- Senecio L. 370. Sibbaldia — Lb. 456.
- Smilax A. 398. 425. D. 502.
- Sonchus L. 372.
- Sorbus D. 485. Spartium — S. 473.

- Spiraea La. 440. S. 466.
- Staphylea S. 476.
- Stellaria La. 449.
- Symplocos S. 468.
- Tanacetum La. 438.
- Tenerium L. 370. 371. La. 436.
- Thalictrum L. 376.
- Tilia D. 494.
- Tragopyrum L. 350.
- Typha I.a. 428.
- Ulmus P. 387. M. 392.
- Urtica L. 377. S. 464.
- Vitis L. 357. 358. D. 485. 498.
- Zizania La. 423.

Fam. 4. Excipulacese Sacc.

Subcupulate Sacc. Mich. II. p. 9.

Perithecia cupuliformia v. patellata v. excipuliformia v. hysterioidea, initio subinde subsphæroidea, sed mox late aperta, membranacea v. carbonacea, atra, erumpentia v. superficialia, glabra v. pilosa.

Clavis analytica generum.

Sect. 1. Hyalosporæ Sacc.

Sporulæ globosæ v. ellipsoideæ v. oblongæ, continuæ, subhyalinæ,

I. Perithecia glabrescentia.

§ Perithecia subcupulata.

A) Perithecia ex hyphis fuscis conglutinatis composita.
Godroniella. Perithecia initio spheroidea clausa, mox ore integro late aperta, subceracea.

B) Perithecia celluloso-contexta.

Excipula. Perithecia excipuliformia seu cupulata; basidia simplicia.

Heteropatella. Perithecia excipuliformia seu cupulata; basidia ramosa.

Dothichiza. Perithecia initio subglobosa, clausa, dein irregulariter dehiscentia et collabentia.

Lemalis. Perithecia cupulata v. urceolata, carnosula v. membranacea, purpurascentia v. flavida.

Catinula. Perithecia tereti-conica v. cupulata, subcoriacea v. cornea, atra. Discula. Perithecia disciformia, sæpe imperfecta, epidermide tecta (Est Discella amerospora).

§§ Perithecia hysterioidea v. valvatim hiantia.

Sporonema. Perithecia valvatim hiantia; basidia bacillaria, typice ramosa. Pleococcum. Perithecia valvatim hiantia; basidia obsoleta v. simplicia. Psilospora. Perithecia late hysterioideo-dehiscentia.

II. Perithecia pilosa v. setosa.

Amerosporium. Sporulæ muticæ; perithecia cupulata.

Dinemasporium. Sporulæ utrinque 1-aristatæ; perithecia cupulata.

Polynema. Sporulæ apice pluri-aristatæ; perithecia cupulata.

Sect. 2. Hyalodidymæ Sacc.

Sporulæ oblongæ v. ovatæ, 1-septatæ, hyalinæ.

Discella. Perithecia discoidea v. patellata, velata, sepe imperfecta; basidia simplicia.

Pseudopatella. Perithecia globulosa dein crasse patellata, subsuperficialia; basidia ramulosa.

Sect. 3. Phragmospora Sacc.

Sporulæ oblongæ v. elongatæ, 2-pluriseptatæ, hyalinæ v. fuscidulæ.

Excipulina. Perithecia subcupulata, glabra; sporulæ subinde subrostratæ. Excipularia. Perithecia subcupulata, setosa.

Pilidium. Perithecia discoideo-inæqualia, glabra, margine dentato-lacera.

Sect. 4. Scolecosporæ Sacc.

Sporulæ filiformes, longæ, rarius breviores, continuæ v. septatæ, subinde in articulos dilabentes.

§ Perithecia stromate nullo inserta.

Schizothyrella. Perithecia subhemisphærica, dein laciniato-fissa; sporulæ in articulos cylindricos mox dilabentes.

Protostegia. Perithecia discoidea, initio velata; sporulæ anguste filiformes continuæ.

Oncospora. Perithecia subcupuliformia, erumpentia; sporulæ tereti-elongatæ, continuæ hamatæ.

§§ Perithecia stromate sclerotioideo v. cenangioideo inserta.

Ephelis. Perithecia pezizoidea stromate effuso sclerotiaceo vel cenangioideo suffulta.

- GODRONIELLA Karst. Symb. myc. Fenn. XV. p. 158 (Etym. a Godronia, cui habitu affine genus). Perithecia superficialia, sphæroidea, clausa, mox apice ore integro aperta, ex hyphis fuscescentibus conglutinatis composita, atra, glabra, subceracea, sicca subcornea. Sporulæ elongatæ, continuæ, hyalinæ, basidiis filiformibus ramosis suffultæ.
- Godroniella juncigena Karst. Symb. myc. Fenn. XV. pag. 158. 3519
 Excipula juncigena Karst. Hedw. 1884, p. 5. Peritheciis laxe gregariis, subspheroideis, glabris, atris, disco minuto concolore, 0,5-0,8 mill. diam.; sporulis elongatis utrinque obtusiusculis, rectis v. lenissime curvulis, 8-14 = 2; basidiis ramosis, 30 = 2.

Hab. ad culmos siccos Junci conglomerati prope Aboam Fenniæ.

EXCIPULA Fr. Syst. Myc. II. p. 190 et 596 et Summa V. Scand. p. 403, emend. (Etym. ab *excipula*, ob perithecia excipuliformia). — Perithecia innato-erumpentia excipuliformia v. cupulata, membrana-

cea v. subcoriacea, celluloso-contexta, atra, glabra, ore integro orbiculari. Sporulæ oblongæ v. elongatæ, continuæ, hyalinæ, varie stipitatæ. — Genus, initio valde heteroclitum, nunc merito in plura divisum. Species glabras phragmosporas ad *Excipulinam* duxi; hirtas amerosporas ad *Amerosporium*, hirtas phragmosporas ad *Excipulariam*. Maltæ vero species restant, ob ignotam fructificationem, omnino dubiæ. *Excipula* Fuck. est typice ascigera, hinc prorsus diversa.

I. Genuinæ: sporulis muticis.

1. Excipula erumpens Berk. North Amer. Fungi n. 452. — Congesta 3520 erumpens glabra; sporulis curvulis breviter apiculatis, 2-4-nucleatis, 15 μ, longis.

Hab. in caule Phytolaccæ in Pensylvania (MICHENER). — β . subhispida Cooke in Grevillea: peritheciis hispidulis. In caule Phy-

tolaccæ, New Jersey Amer. bor..

2. Excipula subcalva Ell. et Everh. Torr. Bot. Cl. 1884, p. 73. — 3521 Peritheciis tenuibus, substriatis, 150-200 μ. diam., apice apertis, margine (in sicco) incurvo, extus inæqualibus v. rugulosis ob cellulas elongatas, brunneas prominulas; sporulis oblongo-cylindraceis, minutissimis, 3-4 ≈ 0,5-0,7.

Hab. in foliis Quercus obtusilobæ, Newfield N. J. in America boreali.

3. Excipula Spirææ Thum. Pilzfl. Sibir. n. 674. — Peritheciis am- 3522 phigenis, conico-elevatis, sparsis aut subgregariis, nitido-atris, nebuloso marginatis; sporulis fusiformibus, curvatis, utrinque truncatulis, continuis, pluriguttulatis, hyalinis, 26-30 \(\times 4\).

Hab. ad folia viva Spirææ thalictroidis in campis siccis arenosis pr. Minussinsk Sibiriæ. — Species, teste auctore, dubia.

4. Excipula dispersa Lév. Ann. Sc. nat. 1846, p. 273. — Perithe- 3523 ciis sparsis globosis nudis intus extusque nigris, ore minuto demum ampliato; sporulis subfusiformibus, 2-guttatis, subhyalinis.

Hab. in foliis Caricis plantagineæ in horto botanico parisiensi in Gallia.

5. Excipula globosa Lév. Ann. Sc. nat. 1846, p. 273. — Peritheciis 3524 epiphyllis, gregariis, discretis, globosis, nudis, nigris, ore obtuso aperto; sporulis fusoideo-elongatis curvatis utrinque acuminatis, subhyalinis.

Hab. in foliis, Glycines in Guyana Batava.

II. Melanophea: sporulis utrinque fasciculato-appendiculatis.

6. Excipula melanophæa Fr. Syst. myc. II. p. 199. Peziza mela-3525 nophæa Kunze, Phlyctidium melanophæum Wallr. Fl. cr. n. 2324. — Peritheciis innato-erumpentibus, atris, primum clausis, convexis, dein in discum concavum dilatatum reclusis; sporulis anguste fusiformibus, curvatis, utrinque appendiculis fasciculatis subtilissimis auctis.

Hab. ad squamas conorum Abietis excelsæ in Thuringia et Rhenogovia.

III. Dubite: sporulis ignotis.

7. Excipula petiolicola Fuck. Symb. Myc. pag. 400. — Peritheciis 3526 sparsis, minutis, hemisphæricis oblongisve, siccis cupulatis, atris.

Hab. in petiolis foliorum Populi tremulæ in Rhenogovia et Tiliæ in Britannia.

8. Excipula gregaria Fr. et Kunze in Linnea V. p. 552. — Innata; 2527 peritheciis minimis, punctiformibus dimidiatis, nigris dein pezizoideo-apertis obliteratisque, disco fusco-pallescente.

Hab. ad petiolos Caricæ Papayæ in ins. Madeira. — In macula lata determinata eximie gregaria et sæpius concentrice disposita.

9. Excipula sphæroides (Pers.) Fr. Syst. Myc. II. p. 191 (sect. Ce- 3528 nangiii), Nyloma sphæroides Pers. Syn. p. 106, Phlyctidium sphæroides (Pers.) Wallr. Fl. cr. n. 2322. — Peritheciis innato-superficialibus hypophyllis, punctiformibus atris depresso-urceolaribus, margine inflexo, disco pallido.

Hab. ad folia decidua et putrescentia Salicis capreæ in Germania, Gallia. — Vilis et dubia species, teste Wallroth.

10. Excipula ulmicola Schw. Syn. Amer. bor. n. 2126. — In pagina 3529 superiore efficit maculas inderminatas late expansas, in ambitu subeffiguratas cinerescentes, fusco-marginatas, margine fusco lato; his copiose immersa sunt perithecia, excipuloidea, punctiformia, nigra, centro depresso et quasi cinerescente.

Hab. rarior in foliis dejectis Ulmi fulvæ, Bethlehem America borealis.

Excipuia viticola Schw. Syn. Amer. bor. n. 2125. — Minutissi- 3530 ma, punctiformis, sparsa. aterrima, demum fere omnino aperta, disco candido.

Hab. rarior in foliis Vitis æstivalis, pagina aversa, Bethlehem Amer. bor.

12. Excipula glandicola Schw. Syn. Amer. bor. n. 2124. — Nuda, 3531. superficialiter adnata, orbiculata. aggregata et interdum confluens; peritheciis singulis applanatis in ambitu manifestim marginatis, atronitentibus plicatis; ore centrali subelevato, pezizoideo-aperto, rotundo.

Hab. rarior ad basin glandium quercinarum putrescentium, Bethlehem Amer. bor.

13. Excipula nitidula Schw. Syn. Amer bor. n. 2127. — Sparsa, mi- 3532 nuta, superficialis; peritheciis subglobosis, nigris, glabriusculis, extus nitidulis; disco concavo, exalbido, non turgido.

Hab. in ligno Lirio dendri Tulipiferæ ætate cinerescente denudato, Bethlehem Amer. bor.

14. Excipula epidermidis Schw. Syn. Amer. bor. n. 2121. — Innato- 3533 erumpens, demum libera; peritheciis cupuliformibus, minutis, sparsis, extus nigris, rugosis, margine sublacerato, orbiculato-subrotundo; disco subaperto, luteo-pallido; minuta.

Hab. in epidermide secedenti Spirææ opulifoliæ, Bethlehem Amer. bor., raro.

15. Excipula Strobi (Pers.) Fr. S. M. II. p. 190, Peziza Pini-Strobi 3534 Pers. Myc. eur. I. p. 326. — Peritheciis cupuliformibus profunde excavatis erumpentibus, minutis, opacis, nigris.

Hab. in ramis Pini Strobi in Germania.

Excipula Empetri Fr. Syst. Myc. II. p. 190. — Peritheciis erum- 3535
penti-superficialibus epiphyllis punctiformibus, opacis atris, demum
in discum atrum hiantibus.

Hab. ad folia Empetri in Germania et Suecia. — Primo convexo-conica, dein cylindrica, demum obovato-cylindrica, levis, hieme aperta margine inflexo.

17. Excipula nervisequia (Pers.) Fr. Elench. II. p. 147. Peziza ner- 3536 visequia Pers. Myc. eur. I. p. 308. — Peritheciis sphæricis atris, demum cupulæformibus, innatis nervo foliorum in filum nigrum demum liberatum abeunti.

Hab. in foliis languidis Plantaginis lanceolatæ in Germania, Gallia, Italia. — Marcescentibus foliis Plantaginis lanceolatæ, nervi, subinde et venæ, turgescere et nigri evadere incipiunt, folio vero adhuc exclusa, e quibus erumpunt perithecia subsphærica, inequalia, astoma, opaca, atra, puncto non majora; dein et nervi erumpunt sistentes illud «subiculum induratum li-

neare» in quo perithecia seriata, cujus mentionem fecit l'ersoon l. c.; tandem vero prorsus liberantur sistuntque filum prorsus rhizomorphoideum, simplex. «Cum hucusque specimina sterilia observare contigerit, nil certi de hac specie abnormi statuere licet.»

18. Excipula Stellariæ Lasch in Flora 1849, p. 86, Bot. Zeit. 1849, \$537 p. 294. — Erumpens, ruguloso-fibrillosa, margine inflexo subplicato, disco oblongo, luteo-pallescente.

Hab. in caulibus Stellariæ gramineæ pr. Driesen Germaniæ.

Excipula Galii Lasch in Kl. Herb. myc. n. 678, Bot. Zeit. 1845, 3538
 p. 68. Fuck. Symb. myc. p. 401 et App. — Erumpens, elliptica
 v. oblonga rugulosa, atra, disco albido.

Hab. in caulibus emortuis Galii Molluginis et G. silvatici pr. Driesen Germaniæ et in Rhenogovia. — Sec. Fuck. asci nondum maturi observati; verisimillime tamen est discomyces.

20. Excipula levigata Fr. Elench. II. p. 148. Peziza levigata Fr. 3539 S. M. II. p. 153. Heterosphæria levigata Fr. Summa p. 365. — Innata, orbicularis, tenuis, levis, atra, margine tenui. sparsa vel gregaria, cauli adpressa, junior sphæriæformis, dein applanata subdifformis, integerrima.

Hab. in caulibus herbarum, e. g. Verbasci Thapsi in Gallia, Suecia.

21. Excipula integerrima Fr. S. M. II. p. 596. — Orbicularis, tumi- 3540 da, nigra, disco aperto lutescente.

Hab. in caulibus in Suecia.

22. Excipula Liliorum (Schw.) Fr. S. M. II. p. 597. Xyloma Lilio-3541 rum Schw. Carol. n. 261. — Innata, oblonga, subdifformis, atronitens, orificio centrali pezizoideo.

Hab. in caulibus Hemerocallidis etc. in America boreali.
Tenuis, 1-3 lin. longa. Abit ad Leptostromata.

23. Excipula majuscula Schw. Syn. Amer. bor. n. 2123. — Epider- 3542 mide tecta, insidens fibrillulis indistinctis repentibus vix radiantibus, lineas longa, ovato-acuminata, confluens, nigra; in centro depressa, demum ore rotundo aperta.

Hab. in caulibus dejectis Collinsoniæ, Bethlehem Americæ borealis. — Affinis E. rumicincolæ.

24. Excipula rumicincola Schw. Syn. Amer. bor. n. 2122. — Epi- 3543 dermide plerumque tecta, imposita fibrillulis radiantibus, oblonga, utrinque acuminata, nigra; centro ore elevato aperto rotundo aut orbiculato.

Hab. in caulibus emortuis Rumicis verticillati, Bethlehem Amer. bor.

25. Excipula Typhæ Lasch in Kl. Herb. myc. n. 677, Bot. Zeit. 1845, 3544 p. 67. — Subrotunda vel oblonga, innata, nigra e plano concava, ore integerrimo.

Hab. in foliis Typhælatifoliæ pr. Driesen Germaniæ.

26. Excipula aspera Fr. S. M. II. p. 597, Sacc. Mich. II. p. 83. — 3545 Peritheciis excipuliformibus, sphæricis, costatis, margine setulis conglutinatis asperulis, ore subconnivente; disco ex paraphysibus filiformibus constante; ascis nullis v. immaturis.

Hab. in basi caulium Osmundæ regalis in Vogesis et in Belgio. — «Probabiliter Trichopezizæ species ex vicinia T. Pteridis (A. S.)».

IV. Species nomine tantum mihi cognitie.

- 27. Excipula Fagi Kirchn. Lotos 1856, p. 204. In Bohemia me- 3546 ridionali.
- 28. Excipula Gallarum Kirchn. Lotos 1856, p. 204. In Bohemia 3547 meridionali.
- 29. Excipula Impatientis Kirchn. Lotos 1856, p. 204. In Bohe- 3548 mia meridionali.
- 30. Excipula patelliformis Kirchn. Lotos 1856, p. 204. In Bohe- 3549 mia-meridionali.

HETEROPATELLA Fuck. Symb. myc. App. II. p. 54 (Etym. heteros diversus v. spurius, et patella). — Perithecia sessilia, ventricosa, ore contracto, laciniato, coriacea; discus concavus, carnosus, discolor. Sporulæ in sporophororum ramosorum apicibus, pedicellatæ, fusiformes, simplices, apice longe appendiculatæ, hyalinæ.

1. Heteropatella lacera Fuck. Symb. App. II. p. 54 fig. 31. — Pe- 3550 ritheciis superficialibus, laxe gregariis sparsisve, \(^1/_2-1\) mill. latis, ventricosis, levibus, glaberrimis, atro-fuscis, coriaceis, ore contracto, in lacinias plerumque 6, subregulares, triangulares, patentes, parum pallidiores dehiscentibus, disco concavo, carnoso, sordido, siccis clausis; sporophoris densissime verticaliter dispositis, ramosis, apice sporulas solitarias gerentibus; sporulis fusiformibus, curvatis, continuis multiguttulatis, hyalinis, pedicellatis, \(26 \in 4\) apice appendiculo longo, filiformi, curvato, \(26-30\) \(\nu\). longo, pedicello plerumque \(16\) \(\nu\). longo abrupte insertis.

Hab. in caulibus siceis putridis Linariæ vulgaris pr. Œ-

strich Rhenogovia. — f. umbilicata (Pers. sub Peziza) Sacc. Mich. II. p. 116: sporulis 25 = 3, utrinque cuspidatis, falcatis, in basidio tereti subramoso pleurogenis. In caulibus Gentiana in Vogesis. — f. Linaria (Peziza Linariae Rabh.). In caulibus Linaria in Gallia. — f. Dauci. In ejusdem caulibus in Gallia.

2. Heteropatella palustris (Brun.) Sacc. in Mich. II. p. 630, Hete-3551 rosphæria palustris Brunaud in Roum. Rev. Mycol. — Peritheciis globoso-depressis, astomis, dein ample umbilicatis, atronitidulis, 1/2-3/4 mill. diam., contextu parenchymatico solidiusculo; basidiis filiformibus fasciculatis $20-30 \approx 1$, breve ramulosis; sporulis fusoideis curvulis utrinque acutiusculis, biguttulatis, $8-10 \approx 1,5-2$, hvalinis.

Hab. in caulibus siccis Euphorbiæ palustris in Gallia prope Saintes (Brunaud).

DOTHICHIZA Lib. in Herb. Roum. et Speg. Reliq. Lib. I. n. 627.
(Etym. a Dothidea, ad quam habitu interdum accedit). — Perithecia erumpentia subrotunda, discreta primo clausa, demum irregulariter dehiscentia, subcupulata. Sporulæ oblongæ vel teretiusculæ, continuæ, hyalinæ. — Facillime hoc genus sistit spermogonium Cenangiorum.

1. **Dothichiza Padi** Sacc. et Roum. Misc. mycol. F. Gall. n. 2251. — 3552 Peritheciis subsuperficialibus, gregariis, applanatis, dein pezizoideodepressis, atris, subcoriaceis, $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam.; sporulis oblongis, $6 \approx 1$, hyalinis, basidiis varie ramosis cylindraceis 4-6-plo longioribus suffultis.

Hab. in ramis corticatis Pruni Padi, Malmedy in Arduennis (LIBERT). — Verisimiliter status spermogonicus Cenangii Padi Fr.

2. **Dothichiza Sorbi** Lib. in Roum. et Speg. Reliq. Lib. I. 627. *Mi*-3553 cropera Sorbi Thum. in Hedwigia. — Peritheciis numerosis, dense gregariis sed semper solitariis et nunquam confluentibus, sub epidermide nidulantibus, applanatis, erumpentibus, orbiculatis vel oblongis, primo clausis demum epidermide disrumpente regulariter cinctis hiantibusque, nigris; sporulis cylindricis, subrectis vel arcuatis, utrinque subtruncatis, simplicibus, enucleatis, hyalinis, 3-4 = 1-1,5.

Hab. in cortice Sorbi Aucupariæ prope Malmedy in Arduennis.

3. Dothichiza Passeriniana Sacc. et Roum. Reliq. myc. Lib. IV. n. 3554 119. — Peritheciis cæspitoso-erumpentibus, collabascendo scutellatis, atris, $\frac{1}{4}$ mill. diam.; sporulis cylindraceis, curvulis, $8-10 \approx 2-2.5$, hyalinis; basidiis (paraphysibus?) filiformibus, septatis, hyalinis, $40-50 \approx 2$.

Hab. in cortice ramorum Rhamni Alaterni pr. Malmedy in Arduennis.

4. Dothichiza populea Sacc. et Br. — Peritheciis laxe gregariis, epi- 3555 dermide velatis, dein erumpentibus, subcoriaceis, atris, globoso-depressis ³/₄-1 mill. diam., mox irregulariter hiantibus et cupulariapertis; sporulis globoso-ellipsoideis, subinde minute apiculatis, 10-12 ≈ 8-10, hyalinis; basidiis..... non observatis.

Hab. in ramis emortuis Populi pr. Troyes Galliæ.

5. Dothichiza populina Sacc. Cenangii populini spermogonium Fuck. 3556 Symb. p. 268. — Peritheciis erumpentibus, gregariis, numerosis, minutis, orbicularibus, atris, vegetis apertis, disco fuliginoso, margine elevato, aspero, atro cinctis, siccis plerumque rima longitudinali, simplici subclausis; sporulis ovatis, numerosis, minutis, hyalinis, 8 = 3.

Hab. in ramis corticatis Populi tremulæ et P. pyramidalis in Rhenogovia.

6. Dothichiza ferruginosa Sacc. Cenangii ferruginosi spermogonium 3557 Fuck. Symb. p. 269. — Peritheciis gregariis, erumpentibus, minutis, substipitatis, orbicularibus, planis umbilicatisque, nigris, primo clausis, demum laceratis; sporulis ovato-oblongis, continuis, hyalinis, 8 = 4.

Hab. in ramis corticatis Pini silvestris in Rhenogovia.

- LEMALIS Fr. Summa p. 360, non Mont. Ann. Sc. nat. 1840 p. 207 (Etym. leme lippitudo). Perithecia seu receptacula cupulata v. suburceolata, carnosula v. membranacea, marginata, cinereo-purpurascentia v. aurea. Sporulæ globulosæ v. oblongæ. Ad Nectrioideas accedit.
- Lemalis Alismatis (Pers.) Fr. l. c. Peziza Alismatis Pers. Myc. 3558
 eur. I. p. 301. Minuta, glabra, sessilis, carnosula ex cinereo
 subpurpurascens; peritheciis cupulatis, depressis, margine subcomplanatis; disco passim pulvere rubello tecto; sporulis.....

Hab. in caulibus siccis Alismatis Plantaginis præteriti anni, in aqua adhuc persistentibus, in Germania et Scandinavia.

Lemalis aurea (Lév.) Sacc. Calinula aurea Lév. Ann. Sc. nat. 1848, 3559
 Peritheciis sparsis v. gregariis cylindraceo-urceolatis,

subminutis, membranaceis, aureis late marginato-apertis; sporulis globosis, concoloribus; basidiis parallelis.

Hab. ad truncos vetustos Pinorum pr. Paris et in Gallia meridionali. — Fungillus exsiccatione habitum Calloriæ chrysocomæ sumit. — An ergo ad Nectrioideas referenda species? An Godroniellæ affinior?

- CATINULA Lév. Ann. Sc. nat. 1848, p. 247 (Etym. catinus ob formam perithecii). Perithecia globoso-ovata v. teretiuscula, membranaceo-coriacea, atra, solidiuscula vel madore carnosula, apice ore lato hiantia, disco concaviusculo, sape leticolore. Sporulæ globosæ v. oblongæ continuæ, subhyalinæ. Species tenuiores forte cum gen. Godrionella aptius conveniunt.
- 1. Catinula turgida (Fr.) Desm. Exs. n. 1818, 20 Not. p. 20, Sacc. 3560 Mich. II. p. 573. Excipula turgida Fr. S. M. II. p. 189, Tympanis turgida (Fr.) Wallr. Fl. cr. p. 424. Peritheciis teretiobeonicis, subinde compressis, gregariis, nigris, ore amplo apertis, solidiusculis, nitide marginatis, contextu parallele celluloso, olivaceo-fusco, disco griseo; sporulis oblongo-ellipsoideis, utrinque rotundatis, 18-20 \approx 8-9 guttatis, hyalinis v. flavidulis; basidiis teretiusculis, 16-18 \approx 3-4, hyalinis.

IIab. in ramis corticatis Coryli Avellanæ in Gallia, Fennia, Germania, Italia et America bor. — Sistit pycnidium Cenangii Coryli Corda.

2. Catinula Mangiferæ (Mont.) Sacc. Lemalis Mangiferæ Mont. Cent. 3561 II. n. 20, in Ann. Sc. nat. 1840, p. 207. — Epi-rarissime hypophylla, gregaria, erumpens; receptaculo cylindrico crasso aut basi incrassata ventricoso, coriaceo, cinerescente, disco terminali concaviusculo, humido plicato-rugoso pulverulento-nigro; ascis nullis; sporulis (quorum morphosis adhuc latet) nudis fusiformi-acuminatis.

Hab. in foliis vivis Mangifera in Guyana (LEPRIEUR).

3. Catinula melaleuca Lev. Ann. Sc. nat. 1848, p. 248. — Perithe 3562 ciis gregariis, minutis, subcorneis, globoso-conicis, levibus, nigris ore constrictis, madore late apertis, intus albis; sporulis ovoideis continuis, subhyalinis.

Hab. in truncis decorticatis Juglandis regia prope Parisios Gallia.

4. Catinula leucophthalma Lev. Ann. Sc. nat. 1848, p. 248. -- Peri- 3563

theciis inter fibras lignosas erumpentibus sessilibus cupulatis, corneis, nigris, late apertis; sporulis globulosis, hyalinis.

Hab. ad ramos decorticatos in silva Boulogue prope Parisios Gallia.

- DISCULA Sacc. (Etym. a Discella, cui analogum genus), Discella Auct. p. p. Perithecia disciformi-patellata, sape imperfecta et veluti e matrice mutata formata, epidermide, sape demum laciniatim fissa, velata. Sporulæ ellipsoideæ, oblongæ v. teretiusculæ, continuæ, hyalinæ, Species aliquæ hinc Oncosporæ, illinc Pleococco propinquæ.
 - 1. Ramicole in Dicolyledoneis arboreis.
- 1. Discula Platani (Peck) Sacc. Discella Platani Peck Rep. on the 3564 St. Mus. N. Y. Discella Platani Oud. Aanw. 1876-77, p. 9.— Pustulis minutis; peritheciis erumpentibus, pallidis; sporulis subellipsoideis v. oblongis, levibus, deciduis, hyalinis, 8-14 \sim 3.5-6.

Mab. in ramis Platani occidentalis, Bethlehem America borealis, et Platani orientalis prope Amsterdam in Hollandia (Oudemans). — Basidia raro sporulis adhærentia manent, nec ita granulosa ut in D. plutyspora. — Species Oudemansii ab illa Peckii non diversa videtur.

2. Discula platyspora (B. et Br.) Sacc. Discella platyspora B. et 3565 Br. Ann. N. H. n. 428. — Peritheciis minutis, superne deficientibus, pustulas tumidulas formantibus; sporulis oblongis, obtusis, continuis, granulosis, 30-35 \u22212; basidiis brevibus, obtusis, simplicibus, interdum cum sporula decedentibus.

Hab. in ramis emortuis Platani, Batheaston Britannia. — Plasma granulosum ita efficit, ut primo obtutu episporium quoque extus granulosum videatur.

3. Discula Magnoliæ (B. et C.) Sacc. Discella Magnoliæ B. et C. 3566 North Amer. Fungi n. 468. — Pustulis sparsis cuticula tectis, apice tantum nudis; sporulis oblongis, 7-8 = 2, basidiis sporulam aquantibus.

Hab. in ramis Magnoliæ cordatæ in montibus Virginiæ Americæ borealis.

Discula microspora (B. et C.) Sace. Discella microspora B. et C. 3567
 North Amer. Fungi n. 470. — Pustulis parvis elongatis depressis cuticula tectis dein medio erumpentibus; sporulis brevibus subellipticis, 7-8 ≈ 3-3,3.

Hab. in ramis Ceanothi americanæ in Pensylvania (Michier).

Discula quercina (Cooke) Sacc. Discella quercina Cooke, Grev. 8568
 XII, p. 23. — Sparsa, discoidea, primo cortice tecta, demum laciniatim erumpens, disco atro; sporulis elongato-ellipticis, hyalinis, 15 = 4.

Hab. in cortice Quercus aquaticæ in Carolina inferiore Americæ borealis.

6. Discula Citri (Cooke) Sacc. Discella Citri Cooke Grev. XII. p. 23. 3569 — Sparsa, rotundata, elliptica vel elongata, fusca, primo epidermide tecta demum lacerata; sporulis elongato-ellipticis, 16-17 ≈ 4,5, hyalinis.

Hab. in ramis Citri in Carolina infer. Amer. bor.

7. Discula macrosperma (Peck) Sacc. Discella macrosperma Peck 3570 Rep. on the St. Mus. N. J. — Peritheciis obsoletis; sporulis oblongis, rectis curvulisve, interdum uno apice attenuatis, hyalinis, 34-40 ≈ 10, intus granulosis.

Hab. in cortice emortuo Salicis, North Greenbush America

8. Discula microsperma (B. et Br.) Sacc. Discella microsperma B. 3571 et Br. Ann. N. H. n. 429, t. 12, f. 8, e. — Peritheciis nigris, sub vitro pallidioribus centro sepe apertis; sporulis minutis, oblongis, continuis, dein sepe expulsis.

Hab. in ramis emortuis Salicis in Britannia, Belgio et Germania. — A Discella carbonacea, cui affinis, differt in primis sporulis multoties minoribus et continuis pustulisque sæpe majoribus.

9. Discula rugosa (B. et C.) Sacc. Discella rugosa B. et C. North 3572 Amer. Fungi n. 467. — Pustulis sparsis curvulis subhysteriiformibus leniter curvis et hinc inde ostiolis prominulis punctatis; sporulis oblongis utrinque attenuatis, 12-14 \(\nu\). longis, endochromate utrinque retracto, basidiis sporulam æquantibus.

Hab. in ramis Aceris rubri in Pensylvania (MICHENER).

10. Discula obscura (B. et C.) Sacc. Discella obscura B. et C. North 3573 Amer. Fungi n. 469. — Pustulis minutis irregularibus depressis, sparsis fuscis, epidermide pellucida tectis; sporulis oblongis, 8-15 = 3.

Hab. in ramis Acerrs striati, Massachusetts Amer. bor.

11. Discula Peckiana Sacc. Discella discoidea C. et Peck Rep. on 3574 the St. Mus. New York, t. 1, fig. 34-37. — Erumpens, discoidea, madore rubescens, uda nigra vel nigricans, epidermide stellato-

fissa cincta; peritheciis supra deficientibus; sporulis copiosis, oblongis vel ellipsoideis, hyalinis, 20-30 y. longis, intus granulosis; basidiis longis, furcatis vel simplicibus, sursum clavulatis.

Hab. in ramis emortuis Carpini americanæ, Greenbush America borealis.

- 12. Discula Kalmiæ (Peck) Sacc. Discella Kalmiæ Peck Rep. on the 3575 St. Mus. N. Y. Pustulis minutis erumpentibus, denique nigricantibus; peritheciis superne deficientibus et subinde excipuliformibus; sporulis oblongo-obovatis, interdum curvulis, hyalinis, 10-15 μ. longis.
- Hab. in ramis Kalmiæ angustifoliæ, Sandlake Amer. bor.
 13. Discula lignicola (C.) Sacc. Discella lignicola Cooke in Grevil-3576 lea. Sparsa, erumpens; peritheciis punctiformibus, atris, demum apertis; disco fuligineo; sporulis cylindraceis, hyalinis, 20 = 3,5.
 Hab. in ligno denudato. Dunedin Australiæ.
- 14. Discula variabilis (Ell.) Sacc. Discella variabilis Ell. Bot. Amer. 3577 Gaz. Peritheciis orbiculari-oblongis vel hysterioideis, nigris, irregulariter laciniatim hiantibus discumque pallidum v. nigricantem revelantibus; sporulis ellipsoideo-oblongis, hyalinis, 7-10 \(\times 4\).

Hab. in ligno decorticato, Vermont Amer. bor. (C. G. PRINGLE).

— Habitus nunc Phacidii, nunc Hysterii. Perithecia sæpe inter fibras ligneas nidulantia.

II. Caulicole et fructigene.

15. Discula olivacea (C. et H.) Sacc. Discella olivacea C. et Harkn. 3578 in Grev. 1880 p. 6. — Sparsa, atro-olivacea, cupuliformis, ¹/₂ mill. diam.; sporulis ellipticis, utrinque subattenuatis, olivaceis, integris, 14 ≈ 7.

Hab. in caule Urticæ (?) in California Amer. bor. — «An Myrothecium?».

16. Discula Darlingtoniæ (Thum.) Sacc. Discella Darlingtoniæ Thum. 3579 F. Lusitan. n. 318. — Peritheciis dense gregariis, superficiali-insidentibus, disciformi-depressis, minutis, opaco-atris, cito expallescentibus; sporulis numerosis, cylindrico-ellipsoideis, utrinque rotundatis, simplicibus, intus homogeneo-grumulosis, $16-18 \approx 6-7$ pellucidis, hyalinis; basidiis brevibus, subrectis, hyalinis.

Hab. in ramulis emortuis Darlingtoniæ glomeratæ in horto botanico, Coimbra Lusitaniæ (Moller).

17. Discula effusa (B. et Br.) Sacc. Discella effusa B. et Br. North 2580

Am. Fungi n. 466. — Pustulis punctiformibus stratum nigrum efformantibus; sporulis oblongis, angustis, $20 \approx 4$, enucleatis.

Hab. in fructibus putrescentibus Piri et Mali in Pensylvania.

18. Discula Leguminum (C.) Sacc. Discella leguminum Cooke in 3581 Rav. Fung. Amer. n. 152. — Pustulis punctiformibus, demum confluentibus, in maculis irregularibus dispositis; sporulis ellipticis, hyalinis, utrinque obtusis, 12-15 ≈ 6.

Hab. in leguminibus Prosopidis, Galveston, Texas Amer. bor.

- An potius Glosporium?
- 19. Discula tenuispora (C. et H.) Sacc. Discella tenuispora Cooke 3582 et Harkn. in Grev. 1880, p. 6. Sparsa, atro-viridis, punctiformis, applanata, margine leniter elevato, \(\frac{1}{4} \frac{1}{3} \) mill. diam.; sporulis rectis, cylindraceis, obtusis, hyalinis, $20 \approx 2.5$.

Hab. in calamis Junci in California Amer. bor.

III. In Monocotyledoneis.

20. Discula anomala (C.) Sacc. Discella anomala Cooke in Grevil- 3583 lea. — Pustulis sparsis, orbicularibus, atris, epidermide tectis; sporulis fusiformibus, endochromate bipartito, hyalinis, 70 = 10.

Hab. in foliis Yuccæ Draconis, New Jersey Amer. bor. — Habitus Discellæ, sporulæ vero facie Bactridii. «An potius Stagonosporæ macrosporæ (D. et M.) Sacc. affinior?».

- sporonema Desm. XIV. Not. p. 182 (1847) (Etym. spora et nema fium seu basidium), Clinterium Fr. Summa pag. 418 (1849). Perithecia epidermide tecta, dein erumpentia, initio clausa dein a centro versus ambitum in lacinias plures dehiscentia. Nucleus discoideus molliusculus, sæpe discolor. Sporulæ ovoideæ v. cylindracæ, hyalinæ, continuæ. Basidia filiformia, sæpius ramosa. Videretur Phacidium basidiosporum.
- 1. Sporonema phacidioides Desm. Ann. Sc. nat. 1847, VIII. p. 182. 3584 Peritheciis copiosis, minutis, subrotundis, applanatis, atro-brunneis, in lacinias 4-5 inæquales, obtusas mox dehiscentibus; disco planiusculo, cinnamomeo; sporulis ovoideo-oblongis, 5 \(\mu \). longis binucleatis.

Hab. in foliis Medicaginis maculatæ in Gallia et Britannia.

2. Sporonema hiemale Desm. 19 Not. p. 25. — Hypophyllum, minutum, 3585 sparsum vel laxe gregarium, rotundatum aut oblongum, in lacinias-2-5 irregulares (epidermicas) dehiscens; disco convexo pallido vel

argillaceo; basidiis simplicibus vel dichotomis, septatis, in catenas sporularum abeuntibus; sporulis numerosissimis, hyalinis, rectis, suboblongis, truncatis, $6 \approx 2$.

Hab. in foliis semiputridis Quercus in Gallia.

3. Sporonema provinciale Mont. VIII. Cent. pl. Cell. p. 304. — Pe- $_{3586}$ ritheciis amphigonis, gregariis, punctiformibus, sinuato-subrotundis, deplanatis, atris, madidis convexis, siccitate cupulari-collapsis, irregulariter radiatim dehiscentibus; sporulis lineari-oblongis, rectis, $5 \approx 1$, hyalinis; basidiis erectis, fasciculatis, $40 \approx 5$, e basi ædematosa ramosissimis, ramis filiformibus, $1 \approx 100$ cr.

Hab. in foliis emortuis delapsisque Mespili germanica in Gallo-provincia (Castagne).

4. Sporonema Guepinii (Mont.) Sacc. Clinterium Guepinii Mont. Pl. 3587 Cell. Cent. VIII. p. 306. — Peritheciis amphigenis erumpenti-liberatis, fusco-brunneis, dein collapsis, subcupularibus, centro mamillatis, madidis hemisphærico-complanatis, umbonatis, tandem rimose dehiscentibus; nucleo hyalino; sporulis fusoideis, 10 = 3; basidiis tenuissimis, ramosis, centrum versus convergentibus, 15 u. longis.

Hab. in foliis Nymphææ pr. Angers Galliæ (Guepin).

5. Sporonema obturatum (Fr.) Sacc. Clinterium obturatum Fr. Sum- 3588 ma Veg. p. 418, Sphæria obturata Fr. S. M. II. pag. 495, Curr. Simpl. Sphær. p. 341. — Peritheciis erumpentibus, subliberis, planis, ovoideis, nigris, dein collapsis, rimoso-dehiscentibus; sporulis curvulis, hyalinis, 10 2. longis.

Hab. in ramis Arbuti in Suecia. — Var. epiphyllum peritheciis subrotundis. In foliis Vaccinii Oxicocci et Ericæ in Suecia et Britannia. — Perithecia subinde stipitelli rudimento instructa; ostiolum prominens, nullum, sed in rimas minimas dehiscens, unde affinitas, quoad habitum, cum Phacidiis.

6. Sporonema rameale Desm. 19 Not. pag. 25. — Numerosum, dense sparsum, epidermide tectum, minutissimum, rotundatum vel oblongum, in lacinias 3-4 inæquales (epidermicas?) dehiscens; disco albido vel rufo, convexo; sporulis hyalinis, rectis, oblongo-cylindricis, obtusis, 10-15 = 2,5, 2-3-guttulatis, globosis quandoque subopacis.

Hab. in ramis siceis Sambuci nigræ in Gallia.

7. Sporonema strobilinum Desm. 20 Not. pag. 14. Phoma strobi-3500 lina Sacc. Mich. II. p. 97. — Peritheciis minutis, subglobosis, tenuissimis, atris, gregariis, quandoque confluentibus, in lacinias

(epidermicas?) plures, inequales dehiscentibus; nucleo (vel disco) convexo, griseo, subopalino; sporulis numerosis, fusoideis, hyalinis, $10-15 \approx 3$; basidiis bacillaribus, subduplo longioribus.

Hab. in squamis strobilorum Abietis in Gallia et Germania. — «Sporulæ fusoideæ v. subclavulatæ, $15 \approx 2^1/_2$, hyalinæ, basidiis filiformibus, sæpius furcatis, $20 \approx 2^1/_2$ hyalinis suffultæ. — *Ph. accedens Sacc. Mich. II. p. 617. Phoma strobilina Peck et Clint. in Rep. on St. Mus. N. Y.: a typo differt sporulis paullo minoribus, nempe $8-11 \approx 2-2^1/_2$. In conis Abietis et Pini Strobi in America boreali et Gallia. — Sphæria strobilina Curr. Simpl. Sphær. p. 329 eadem res videtur.

8. Sporonema Wallrothii Mont. Pl. Cell. Cent. VIII. Sph. hians Wallr. 3591 Fl. crypt. n. 3742. — Peritheciis minutissimis sparsis. insculptis, nigris, vertice prominulis convexis, mox ostiolo irregulariter aperto hiantibus excipuliformibus cubiliaque exasperantibus; sporulis cylindraceis, continuis rectis, 15 μ. longis; basidiis undique centrum versus convergentibus, ramosis, 20-30 μ. longis.

Hab. ad pira immatura humi putrescentia in Thuringia.

PLEOCOCCUM Desm. et Mont. Ann. Sc. nat. 3. XI. p. 53 (Etym. pleon plus, et coccum). — Perithecia erumpentia, dimidiata, tenuiter membranacea, convexo-plana, atra, valvis 2-4 (sæpius ternis) siccitate conniventi-approximatis, madore discedentibus, dehiscentia. Nucleus mucilaginosus, opalinus, humore admoto, cito diffluens. Sporulæ ovoideo-oblongæ, hyalinæ. — A gen. Sporonemate vix diversum mihi videtur.

1. Pleococcum Robergei Desm. et Mont. Cent. VI. n. 44, et l. c., p. 3502 54. — Minutum, punctiforme, atro-nitens, in culmo foliisque decoloratis gregarium; sporulis innumeris, ovoideo-oblongis, hyalinis 5 µ. longis; basidiis nullis v. obsoletis.

Hab. in culmo Juncorum variorum, foliisque siccis Graminum nec non Cyperacearum, imprimis Caricis arenariæ, Hermonville, Calvados (Roberge).

2. Pleococcum pezizoideum Cooke, Grev. XII. pag. 24. — Sparsum, 3593 atrum, cupuliforme, erumpens, margine subintegro, disco cinereo; sporulis linearibus, obtusis, hyalinis, 7 = 2; basidiis subrectis, simplicibus.

Hab. in foliis Lathyri, S. Carolina Amer. bor.

PSILOSPORA Rabenh. Herb. Myc. et Hedw. I. p. 107 (Etym. psilos nudus, et spora, h. e. sine asco). — Perithecia innato-superficialia,

oblonga v. inæqualia, sub-bilabiata, atra, sæpius in cortice subvivente matricis dense gregaria, membranaceo-carbonacea. Sporulæ ellipsoideæ vel oblongæ, continuæ, subhyalinæ basidiis bacillaribus suffultæ. — Cfr. quoque Stagonospora strobilina (Curr.) Sacc. Syll. II. n. 2456 seu Psilospora strobilina Sacc. Syll. II. n. 771. — Pycnidium sistit Dichænæ, quæ habitu simillima.

1. Psilospora faginea Rabh. Herb. Myc. II. p. 450 et Hedw. I. p. 3594 107 cum icone, Hysterium (Dichana) rugosum f. Fagi Fr. Elench. II. p. 141 ex parte. — Peritheciis majusculis, erumpentibus, oblongis, demum in maculas rugosas effusas confluentibus; sporulis ellipsoideis, 18-20 = 14-15, hyalinis, sæpe guttatis; basidiis filiformibus, 50-60 = 2.

Hab. in cortice vegeto Fagi silvaticæ in Suecia, Germania, Gallia, Italia, Austria.

2. Psilospora Quercus Rabh. in Fuck. Symb. myc. p. 401. Dichw. 3595 na quercina Fr. S. Veg. Sc. p. 402 ex parte. — Peritheciis quam in P. faginea paullo minoribus et planioribus; sporulis (?) oblongis, 22-25 \times 8-10, 4-nucleatis, hyalinis.

Hab. in cortice vegeto levigato Quercus pedunculatæ, sessilifloræ, Suberis etc. in Gallia, Suecia, Germania, Italia, Lusitania. — Suspicor sporulas modo descriptas potius endosporas liberatas simillimæ Dichænæ quercinæ sistere. Sporulas stipitatas enim, ut in P. faginea, numquam vidi.

AMEROSPORIUM Speg. F. Arg. Pug. IV. n. 306 (Etym. z priv., meros pars, appendix, et spora, quia sporulæ muticæ). — Perithecia (Dinemasporii v. Polynematis ad instar) subcupulata, setulosa. Sporulæ cylindraceo-ellipticæ, muticæ. — Genus duobus modo citatis et Heteropatellæ Fuck. affine, a primis aristis sporularum deficientibus, ab ultimo setularum peritheciorum præsentia recedens.

1. Amerosporium polynematoides Speg. F. Arg. Pug. IV. n. 306. — 3506 Peritheciis superficialibus, subhemisphærico-applanatis, 200-250 µ. diam., in sicco centro late cupulatis (an tantum umbilicatis?), margine crasso, obtuso, udis convexis et disco diffluenti gelatinoso ornatis; contextu dense parenchymatico-elongatulo, atro-olivaceo; pilis rigidis, erectis, unicellularibus (an semper?), paucis, atris, basi vix incrassatis, apice acutiusculis et subhyalinis, 100-180 ≈ 5-12 adspersis; sporulis elliptico-cylindraceis, subclavulatis, sursum acutiusculis, deorsum obtusiusculis, utrinque minute 1-guttulatis, 12-15 ≈ 2-3, hyalinis, muticis.

Hab. ad caules dejectos putrescentes Conii maculati, Bañado de San José de Flores in Argentina.

- 2. Amerosporium phæotrichum (Rab.) Sacc. Excipula phæotrichu 3597 Rabenh. Bot. Zeit. 1857, pag. 405. Gregarium, erumpens, demum fere libere enatum; peritheciis e globoso turbinatis fusco-atris, pilis rufo-fuscis vestitis, primo clausis, dein cupulato-dilatatis; sporulis minutis cylindraceis, continuis.
 - Hab. ad caules emortuos Adenostyles albifrontis in montibus Sudetis.
- 3. Amerosporium congregatum (Cooke) Sacc. Excipula congregatu 3598 Cooke in Grevillea. Gregarium, plagulas atras in caulibus formans; peritheciis immersis, setulis erectis, nigricantibus, cuticulam perforantibus vestitis; sporulis linearibus, obtusis, curvulis.

Hab. in caule emortuo Euphorbiæ silvaticæ, Darenth

Britanniæ.

4. Amerosporium incurvum (Cooke) Sacc. Excipula incurva Cooke 3599 in Grevillea. — Sparsum, atrum; peritheciis hemisphæricis, nitidis, margine valde incurvo, disco livido-griseo, extus pilis rigidis, elongatis, densissimis obsitis; sporulis cylindraceis, curvulis, utrinque obtusis, hyalinis, 2-4-nucleatis, 18 p. longis.

Hab. in caulibus herbaceis, New York Amer. bor. (Gerard).

5. Amerosporium Duriæi (Mont.) Sacc. Excipula Duriæi Mont. Cent. 3600 VI. n. 89, in Ann., 3, IV. p. 359, et Syll. Crypt. n. 899, Vermicularia Duriæi Mont. Fl. Alg. — Gregarium, libere enatum; peritheciis minutis globosis, astomis, cupulato-depressis, pilis concoloribus atris divergentibus a basi ad medium, raro, nisi in junioribus, ad apicem vestitis; nucleo fuliginoso; sporophoris ramosis tenuissimis; sporulis cylindricis myriadeis 2-4-guttulatis, 12,5 \u22222,5.

Hab. in caulibus herbarum, La Calle Algeriæ (Durieu).

6. Amerosporium punctiforme (Berk.) Sacc. Excipula punctiformis 3601 Berk. North Am. Fungi n. 456. — Punctiforme superficiale, hispidum; sporulis curvis, fortiter apiculatis, latiusculis, enucleatis.

Hab. in ramis emortuis Sarothamni v. Spartii (corn-broom) in Carolina infer.

7. Amerosporium macrotrichum (B. et Br.) Sace. Excipula macro- 3602 tricha B. et Br. Ann. N. H., n. 444. — Peritheciis majusculis, grosse setosis; setulis lougis, rectis, bitunicatis, tunica interiore ab exteriore facile secodente; sporulis minutis, lunulatis.

Hab. in ramis Ulicis in Britannia.

8. Amerosporium microsporum (C. et Ell.) Sacc. Excipula microspo- 3603



ra C. et E. Fung. New Jersey, in Grevillea t. 95. f. 18. — Sparsum, atrum; peritheciis superficialibus, siccis, globosis, udis demum arcte apertis, hemisphæricis, sursum levibus, deorsum pilis rigidis obsitis, disco livido; sporulis allantoideis, hyalinis, minutis, 8 µ. lg.

Hab. in ligno Caryæ et Ilicis, New Jersey Amer. bor.

9. Amerosporium chætostroma (B. et Br.) Sacc. Excipula chæto- 3604 stroma B. et Br. Ann. N. H. n. 445, t. XI, f. 2. — Gregarium minutum, convexum, cinereo-nigrum, disco setulis longis, continuis, penetrantibus asperulo; sporulis lunato-fusoideis, utrinque acutis, pallidis, plasmate granuloso, chlorino; basidiis longiusculis fasciculatis v. connatis.

Hab. in ramis emortuis Fraxini, Somerset Britanniæ.

10. Amerosporium applanatum (B. et C.) Sacc. Excipula applanata 3805 Berk. et Curt. Exot. Fungi p. 281. — Applanatum, strigosum; disco pallido; sporulis minutis, oblongis, brevibus, curvatis, 6-7 µ. long.

Hab. in corticibus, Surinam.

11. Amerosporium corvinum (Pers.) Sacc. Excipula corvina (Pers.) Fr. 3606 Summa Veg. p. 403, Peziza corvina Pers. Myc. eur. I. p. 248.

- Suberumpens, utrinque atra, subdepressa, externe pilosa.

Hab. ad ramos et ligna in Germania. — Pusilla late aperta; subiculum in aliquibus adest maculiforme, pariter nigrum. — Dubia, quia fructificatio latet.

12. Amerosporium leucotrichum (Peck) Sacc. Excipula leucotricha 3607 Peck Rep. on the St. Mus. New York. — Peritheciis minutis sparsis, disco plano v. leniter convexo, orbiculari, elliptico v. elongato, nigro, setis longiusculis, septatis, hyalinis marginato; sporulis fusoideis, hyalinis, 7-10 y. longis.

Hab. in foliis emortuis graminum, West Albany Amer. bor.

- Species setulis delicatis albidis distincta.

13. Amerosporium Caricum (Lib.) Sacc. Excipula caricum Lib. in 3608
Herb. (sub Vernicularia), Cooke in Grevill. — Sparsum, innatum,
atrum; peritheciis sphæricis, pilis longissimis tectis, pezizoideoapertis; sporulis fusiformibus, rectis, utrinque attenuatis.

Hab. in foliis Caricum in Arduennis. — Minus quam Dinemasporium graminum et sporulæ non aristatæ, sec. Cooke.

14. Amerosporium Equiseti (Peck) Sacc. Excipula Equiseti Peck 26 3009 Rep. p. 77. — Peritheciis minutis, sparsis, applanatis, nigris, setulis longiusculis, rectis, nigricantibus vestitis; sporulis rectis, cylindraceis, hyalinis, 7-10 μ . longis.

Hab. in caule Equiseti, Buffalo Amer bor. (CLINTON).

DINEMASPORIUM Lev. Ann. Sc. nat. 1846, p. 274. (Etym. dis bis, nema filum et spora), Polynema Fr. et Fuck., nec Lev. — Perithecia cupuliformia, superficialia, atra, setulis fuscis rigidulis conspersa. Sporulæ oblongæ vel allantoideæ, continuæ, hyalinæ, utrinque 1-aristatæ. Basidia bacillaria, rarius ramosa.

I. Eu-Dinemasporium. Sporulæ utrinque I-aristatæ.

1, Dinemasporium graminum Lév. Ann. Sc. nat. 1846, p. 274, Exci- 3610 pula graminum Berk. Corda Icon. III. f. 79. — Peritheciis sparsis, pilis simplicibus, atris, apice pallidioribus, $200-400 \approx 8-12$, hirtis, subcupulatis, minutis; sporulis falcato-fusoideis, $15 \approx 2,5-3$, hyalinis, utrinque setulà 15 μ . longà obliquà auctis.

Hab. in culmis foliisque languidis vel emortuis Arundinis, Andropogonis, Eutrianæ, aliorumque graminum et Caricum in Gallia, Italia, Britannia, Germania, Belgio, Amer. bor. et australi, India or., Cuba. Secundum auctores habetur forma sporulis $10-14~\mu$. tantum longis (Cuba et Amer. bor.), alia sporulis $15-20~\mu$. longis, ciliisque vero brevioribus (in Carolina). Sec. cl. Spegazzini species occurrit quoque in caule Medicaginis in Argentina; an vere identica? — β . strigosulum Karst. Hedw. 1884, p. 21: a typo recedit sporulis minoribus, $9-12\approx 2-3$, setulisque $6-8~\mu$. longis utrinque auctis. In culmis foliisque emortuis Secalis, Poæ, Phragmitis prope Mustiala Fenniæ.

2. Dinemasporium strigosum (Fr.) Sacc. Mich. II. p. 281, Peziza stri-3611 gosa Fr. S. M. II. p. 103, Vermicularia strigosa Lib. Exs. n. 349? Peritheciis innato-sessilibus, applanatis, concavis, strigosis; disco pallido; sporulis fusoideo-falcatis, 25-30 ≈ 3-4, utrinque acutis, guttulatis, hyalinis, setula 4-5 μ. longa utrinque auctis.

Hab. in foliis culmisque graminum in Germania, Italia, Gallia, Belgio, Cuba et Avan River. — β . leptosporum Sacc. Mich. II. p. 600: sporulis fusoideo-curvulis, $16-18 \approx 1\frac{1}{2}-2$, utrinque breve setigeris, 4-nucleatis, hyalinis. In culmis graminum in Gallia.

3. Dinemasporium rhodophæum Speg. in Michelia I. p. 480. — Pe- 3612 ritheciis cupuliformibus parenchymate immersis, disco superficiem non vel vix (humiditate) excedente, numquam tectis, laxe gregariis, subparallelis, macula nulla vel subnulla insidentibus, discoideis sel ob pressionem nervorum folii subquadratis, minutis, 1/4-1/3 mill. diam.; excipuli contextu parenchymatico, fuligineo, margine aterrimo, nitente atque pilis brevissimis, 20-40 ≈ 5, concolo-

ribus, unicellularibus, laxe ornato; disco amœne roseo vel roseo-aurantiaco; sporulis ellipticis, rectis, biguttulatis, $9 \approx 3$, hyalinis, utrinque setulà rigidulà subæquilongà, rectà auctis.

Hab. in foliis emortuis diu intemperiis expositis Phragmitis

communis in insula dicta Lido apud Venetias.

4. Dinemasporium microsporum Sacc. Misc. Myc. F. helv. n. 17. — $_{3613}$ Peritheciis sparsis, subsuperficialibus, subcupulatis, $^{1}/_{3}$ mill. diam., nigris, setulis rigidis, cuspidatis, 250-280 μ . longis, subcontinuis, atris obsessis; sporulis cylindraceis, curvatis, $7-9\approx2-3$, utrinque oblique 1-ciliatis, ciliis 10-12 μ . longis, hyalinis; basidiis fasciculatis filiformibus, $40\approx1-1.5$.

Hab. in foliis emortuis Phragmitis ad lacum Neuchatel Helvetiæ (Morthier). — Certe affine D. decipienti.

5. Dinemasporium minimum C. et Ell. in Grevillea. — Sparsum, exiguum, atrum; pilis rigidis, septatis, erectis circ. 100 u. longis; disco vix conspicuo; sporulis linearibus, curvulis, nucleatis, utrinque ciliatis, 20 = 4 (cum ciliis).

Hab. in foliis Andropogonis, New Jersey Amer. bor.

6. Dinemasporium bicristatum Cooke in Rav. Fung. Amer. n. 144 et 3615 in Grevillea. — Erumpens; peritheciis brunneo-atris, sparsis, pilis rigidulis obsitis; disco pallide cinereo; sporulis linearibus, brevibus, 12-14 μ. longis, hic 2-ciliatis, hinc 1-ciliatis.

Hab. in Zea Mays, Aiken Carolinæ infer. — «E ciliis geminis forte alterum ut stipes seu basidium habendum est».

7. Dinemasporium ciliatum (Bon.) Sacc. Cheetomium ciliatum Bon. 3616
Handb. Myk. p. 226. — Peritheciis ovoideis, teneris, basi imprimis pilis longis nigris, non septatis instructis mycelioque repente cinctis; sporulis cylindraceis, utrinque setula exigua ornatis.

Hab. in culmis graminum inter muscos in Guestphalia.

8. Dinemasporium Dianthi (West.) Oud. Bot. Zeit. 1875, p. 591. Phylosoticta Dianthi West. Not. Crypt. ined. 1851 e p. — Maculis subcircularibus dein subconfluentibus, albidis; peritheciis exiguis, numerosis in utraque pagina prominulis, setulis atris cladosporioideis cinctis, collabascendo depressis, atris, supra stramineis; sporulis elongatis, hyalinis, $14-16 \approx 3.5$, utrinque in setulam brevem productis, obsolete 1-septatis.

Hab. in foliis languidis Dianthi barbati in Belgio.

9. Dinemasporium Patella C. et Ell. in Grevillea. — Sparsum; pe- 3618 ritheciis demum superficialibus, atris, cupuliformibus; margine incurvatis, extus flexuoso-pilosis; sporulis fusiformibus, curvulis,

685

Excipulaceæ, Hyalosporæ, Dinemasporium.

utrinque attenuatis, 3-4-nucleatis, 25-30 y. longis (sine appendiculis).

Hab. in caulibus herbarum, New Jersey Amer. bor. — Habitus Excipulæ recurvæ Gerard, sed sporulæ aristatæ et paullo majores.

10. Dinemasporlum hispidulum (Schrad.) Sacc. Mich. II. p. 281, Pe-3619 ziza hispidula Schrad. Journ. Bot. 1799, II. p. 64, Polynema hispidulum (Schrad.) Fr. Summa p. 367, Sacc. Spec. Ven. p. 189, t. XVII. f. 16. — Peritheciis gregariis vel sparsis, majusculis, cupuliformibus, atris, setis rigidis longis rectis, subseptatis, discoglaucescente; sporulis elongato-fusoideis, curvulis, 14-18 \times 2-2,3, 3-4-guttulatis, utrinque setulà brevi obliquà auctis.

Hab. in ligno putrescente Quercus, Castaneæ, Coryli, Robiniæ etc., rarius in culmo Donacis in Germania, Gallia, Italia, Belgio. — Var. herharum Cooke F. Br. II. n. 28: peritheciis sæpe paullo majoribus; sporulis 11-14 \(\approx 2,5-3\), breviter ciliatis. In caule Labiatarum, Silenes, Urticæ in Britannia, Italia. America boreali.

11. Dinemasporium decipiens (De Not.) Sacc. Mich. II. p. 282, Exci. 3620 pula decipiens De Not. Att. Accad. Tor. Ser. II. 10 p. 170. — Peritheciis gregariis cupulatis exiguis, atris, setulis rigidulis atris rectis hirtis; sporulis fusoideo-allantoideis, 6-7 = 2-2,5, utrinque setulâ filiformi, 6-7 = 1, obliquâ auctis; basidiis (in peritheciis junioribus observandis) filiformibus, prælongis, dichotome ramosis, subinde simplicibus, mox evanescentibus.

Hab. in lignis Carpini, Robiniæ, Castaneæ, Quercus, Rhamni in Italia boreali et Austria.

12. Dinemasporium Robiniæ Gerard in litt. Peck 25 Rep. p. 88. — 3621 Peritheciis cupuliformibus, setosis, nigris; sporulis elongatis, 5 μ . longis, utrinque aristà sporulam æquante auctis.

Hab. in ligno Robiniæ, Poughkeepsie Amer. bor. (Gerard).

— «An diversum a D. decipiente?».

Dinemasporium Pezizula B. et C. North Amer. Fungi n. 454. — 3622
 Pezizæforme, hirtum; sporulis curvatis, angustis, 3-5-nucleatis,
 20 ≈ 4.

Hab. in ramis et ligno Sambuci pubentis in montanis Carolinæ sup., New Baltimore et North Greenbush Amer. bor.

Dinemasporium gelatinosum B. et Br. Fungi of Ceyl. n. 797. — 3623
 Superficiale, in epidermide nigra insidens; sporulis hyalinis magnis, breviter fusiformibus ellipticisve, 30-33 μ. longis.

Hab. in ramis emortuis, Central province Ceylon,

15. Dinemasporium acerinum Peck 26 Rep. pag. 77. — Peritheciis 3624 minutis, pezizoideis, nigris, pilis sparsis, atris, brevibus rectis hirtis; sporulis inæqualiter ellipsoideis, 7-8 μ. longis, utrinque setulà 2-3 μ. longà auctis.

 $\it Hab.$ in ligno Aceris, Buffalo Amer. bor. (CLINTON.) — A $\it D.$ $\it Robiniw$ sporulis longioribus pilisque brevioribus dignoscitur.

16. Dinemasporium affine Speg. F. Arg. Pug. III. n. 130. — Peri 3625 theciis cupulato-hemisphæricis, gregariis, ¹/₄-¹/₅ mill. diam., atris, siccis, ruguloso-contractis, udis aperto-applanatis, epithecio albohyalino diffluente, setis, raris, paucis, cylindraceis, utrinque subattenuatis, 3-5-septatis, 50-80 ≈ 5, atris ornatis, contextu densissime prosenchymatico, minuto, atro, carnosulo; sporulis ellipticonavicularibus, 4-5 ≈ 1¹/₂, utrinque rotundatis ac setulà æquilonga hyalina auctis, in sterigmatibus cylindraceis, hyalinis, 10-15 ≈ 1, acrogenis.

Hab. in trabe vetusta diu intemperiis exposita prope ei ne-

tiro, Buenos-Aires Argentinæ.

17. Dinemasporium Betulæ (Fuck.) Sacc. Excipula Betulæ Fuck. En. 3626 Nass. p. 64. — Gregarium, sessile, applanatum, concavum, extus setis longis erectis, nigris, disco pallescenti; sporulis parvis, cylindraceis; curvatis, utrinque longe 1-aristatis.

Hab. in ligno betulino decorticato, ad terram prostrato,

Eberbach Rhenogoviæ. — Totus fungulus 1 lineam latus.

18. Dinemasporium fimeti Plowr. et Phill. in Grev. IV. p. 119, t. 62, 3627 fig. 1. — Peritheciis subrotundis, superficialibus, nigris; sporulis utrinque appendiculatis, 7 μ. longis (absque ciliis).

Hab. in stercore cuniculorum, King's Lynn Britanniæ. — A D. graminum differt peritheciis minorihus et compactioribus

et sporulis minoribus.

II. Stauronema Sacc. Sporulæ cruciato-aristatæ.

19. Dinemasporium cruciferum Ellis Bull. Torr. Cl. Fetr. 1882, p. 20. 3628 — Minutum, margine atro-brunneo-setulosum, setulis 75+85 μ. longis; sporulis oblongis; curvulis, 7,5-8,5 ≈ 3-4, carneolo-hyalinis utrinque aristà obliquà, sporulam æquante auctis, nec non ad medium aristà breviore utrinque ornatis (hinc ciliis quatuor decussatis).

Hab. in culmis foliisque dejectis graminum prope Newfield

N. J. Amer. bor. — Interdum a medio latere convexiore sporularum binæ aristæ oriuntur fere ut in Diap. Chor. Talcola.

20. Dinemasporium Platense Speg. Fung. Arg. II. p. 36. - Peri- 3629 theciis siccis globoso-contractis, udis diffluentibus subpatellaribus, atris, 1/2-1/2 mill. diam., hirsutis; setulis continuis, opacis, rectis rigidis, atris, 60-100 = 6-8, apice obtuse rotundatis; sporulis cylindraceo-ellipticis, inæquilateraliter rotundatis, 15 = 4-5, utrinque ac medio dorso setula 15 = 1 hyalina ornatis.

Hab. in culmis putrescentibus Scirpi speciei cujusdam ad ripas Rio de la Plata in Rep. Argentina.

POLYNEMA Lév. Ann. Sc. nat. 1846, p. 274 (Etym. polys multus, et nema filum), Excipula De Not. - Perithecia cupuliformia, superficialia, atra, setis rigidulis vestita. Sporulæ oblongæ, continuæ, hyalinæ, stipitellatæ, apice aristis subquaternis patentibus ornatæ.

1. Polynema ornatum (De Not.) Lév. Ann. Sc. nat. 1846, p. 274, Ex- 3630 cipula ornata De Not. Att. Accad. Tor. 1845, VII. Dec. III. n. 2. - Peritheciis cupuliformibus, superficialibus, atris, minutis, siccis contractis, madore apertis, strigoso-hirtis; setulis confertis, flexuosis, rigidis, longiusculis, fuscis; disco cinerescente; sporulis oblongis vel oblongo-clavulatis, chlorino-hyalinis, apice aristis patentibus quaternis ornatis, basidiis setiformibus suffultis, 8-10 = 2-2,5, ciliis basidioque 5-6 μ . longis.

Hab. in epidermide dealbata trunci Castaneæ vescæ prope Genova Italia borealis.

DISCELLA B. et Br. Ann. N. H. n. 426 ex parte (Etym. a disco ob formam perithecii). - Perithecia disciformi-patellata, sæpe imperfecta et veluti e matrice mutatà formata, epidermide dein varie fissa diu velata. Sporulæ fusoideæ vel oblongæ, 1-septatæ subhyalinæ. - Genus elementis heterogeneis compositum; nonnullæ species, perithecio vero carentes ad Melanconieas aptius ducerentur. Species amerosporas sub genere Discula seposui.

1. Discella carbonacea (Fr.) B. et Br. Ann. N. H. n. 426, t. XII. 3631 f. 8, Phacidium carbonaceum Fr. S. M. II. p. 574, Nemaspora Mougeolii de Lacr. — Peritheciis discoideis vel excipuliformibus, sparsis, atris, epidermide initio tectis, demum eâ laciniatim scissâ, erumpentibus; sporulis fusoideis, rectis, 18 = 6, 1-septatis, non constrictis, hyalinis vel chlorinis, basidiis teretibus dimidio brevioribus suffultis.

Hab. in ramis corticatis Salicis capreæ, S. albæ etc. in Gallia, Germania, Britannia, Lusitania, America boreali.

2. Discella canadensis Peck Rep. on the St. Mus. New York. — 3632 Pustulis exiguis; peritheciis obsoletis vel evanidis; sporulis oblongis vel oblongo-ovoideis, 20-25 μ. longis, initio hyalinis dein coloratis et plerumque 1-septatis, in grumulos vel cirros atros exsilientibus; basidiis sporulas subæquantibus eisque primum hærentibus.

Hab. in ramis Amelanchieris canadensis, Center America borealis.

3. Discella arida Peck Rep. on the St. Mus. New York. — Peri- 3633 theciis in maculis sat amplis, aridis, griseis innatis, minutis, applanatis, pezizoideis, nigris, initio epidermide tectis, dein ea circulariter secedente, anulatim prominulis; sporulis oblongis vel lanceolatis, continuis dein 1-septatis, hyalinis, 9-13 µ. longis.

Hab. in foliis languidis Cassandræ calyculatæ, Adirondack Amer. bor. — Faciem præbet minutæ Mollisiæ.

4. Discella abnormis B. et Br. Ann. N. H. n. 429. — Peritheciis 3634 spuriis globosis, poro rotundo pertusis, omnino tectis et cum matrice fere confusis; sporulis breve fusoideis, 1-septatis, flavo-brunneis.

Hat. in ramulis Sambuci, Batheaston Britanniæ. — Ad typum Diplodice accedit.

PSEUDOPATELLA Sacc. (Etym. a similitudine patellæ). Cfr. Tul. Select. Fung. Carp. III. p. 177, t. XX. f. 9-11, ut spermogonium Durellæ. — Perithecia initio globulosa, dein patellato-pezizoidea, turgidula, subcoriacea, glabra, subsuperficialia, atra, disco pallidiore. Sporulæ oblongæ 1-septatæ, subhyalinæ in basidiis longis, ramulosis, tortuosis acro-pleurogenæ.

1. Pseudopatella Tulasnei Sacc. Cfr. Tul. 1. c. Characteres generis. 3635 Sporulæ oblongæ, vix curvulæ, utrinque rotundatæ, 1-septatæ, vix constrictæ, 8-11 ≥ 3.5.

Hab. in lignis nudis, arefactis Castaneæ et Quercus prope Paris et Versailles Galliæ. — Sec. Tul. sistit spermogonium Durellæ compressæ.

EXCIPULINA Sacc. (Etym. ab *Excipula*, cui affinis) *Excipula* Auct. p. p. — Perithecia excipuliformia vel subcupulata, erumpenti-superficialia, atra, glabrescentia. Sporulæ elongato-fusoideæ, 2-pluriseptatæ, subhyalinæ, (in una specie apice rostratæ).

1. Excipulina recurvispora (B. et C.) Sacc. Excipula recurvispora 3636 B. et C. North Amer. Fungi n. 450. — Maculis fuscis, nigro-marginatis; peritheciis crumpentibus; sporulis longis, anguste fusiformibus, 4-septatis, apice in processum longum hyalinum recurvum attenuatis.

Hab. in foliis Lauri Caroliniensis in Carolina inf.

2. Excipulina conglutinata Ellis et Everh. Bull. Washburn. I. p. 6. 3637 — Peritheciis hemisphæricis, ³/₁-1 mill. diam., fibroso-contextis, fibris marginalibus subliberis, hinc marginem subfimbriatum et incurvatum formantibus, materie viscosa atra conglutinatis; disco pallido; sporulis copiosis, arcuato-fusoideis, utrinque attenuatis, plasmate 2-3-partito vel 2-3-septatis, 22-25 \(\times\) 3.

Hab. in caule putri Valeria næ capitatæ in M. Paddo Washington Amer. bor. (Suksdorf). — Habitus Sphæriaceæ collapsæ; differt ab *E. incurva* sporulis acuminatis, longioribus et perithe-

ciis glabris.

EXCIPULARIA Sace. (Etym. ab *Excipula*, cui affinis) *Excipula* Auct. p. p. — Perithecia excipuliformia, atra, setosa. Sporulæ fusoideæ, 2-pluriseptatæ, hyalino-fuscellæ, basidiis brevibus suffultæ.

1. Excipularia fusispora B. et Br. Ann. N. H. n. 814, t. IX. f. 1. 3638 — Peritheciis minutis, nigris, setulis continuis, rigidis, dense vestitis; sporulis anguste fusiformibus, 6-7-septatis, curvis, 50 p. longis, articulis extimis hyalinis, ceteris fuscellis guttulatisque; basidiis bacillaribus brevibus.

Hab. in cortice interiore Clematidis Vitalbae in Britannia.

PILIDIUM Kunze Myk. Heft. II. pag. 92, emend. (Etym. pilidion pileolus). — Perithecia erumpentia, discoideo-scutellata, inaqualia, membranacea, atro-fuliginea, denique margine sublaciniata, discoidiore. Sporula oblongae vel fusoideo-falcata. 2-pluriseptata, hyalina.

1. Pilidium fuliginosum (Fr.) Auersw. Hedw. 1866, p. 191, Cenan-3639 gium fuliginosum Fr. Elench. H. p. 23, Pilidium carbonaceum (Lib.) B. et Br. Ann. N. H. n. 442. — Peritheciis irregularibus atro-brunneis, in plagas latas aggregatas subiculoque late effuso, ambiente innatis: sporulis filiformibus falcatis, 3-septatis, hvalinis.

Hab. in ramulis salicinis e. g. Salicis caprem in Gallia, Britannia, Germania.

2. Pilidium Euclea (K. et C.) Sace. Protostegia Euclea Kaleh, et Cooke 2040 -



in Grev. 1880, p. 19. — Epiphylla; peritheciis immersis, discoideis, fuscis, margine dentato; disco aquose cinereo, convexo; sporophoris parce ramosis; sporulis linearibus, rectis v. curvulis multinucleatis, demum 3-5-septatis, $40-50 \approx 3$.

Hab. in foliis Eucleæ undulatæ in Africa australi.

- SCHIZOTHYRELLA Thüm. M. U. n. 1684 (Etym. schizo findo, et thyreos scutum). Schizothyrium Lib. Herb. et in Roum. F. Gallici n. 612. Perithecia innata vel superficialia, membranacea, primo clausa, dein in lacinias a centro versus ambitum dehiscentia, a nucleo discreta. Nucleus ceraceus, coloratus. Sporulæ cylindraceo-filiformes, septatæ, dein in articulos utrinque truncatos septatosque secedentes, hyalinæ vel pallidæ. Articuli ipsi, in quos sporulæ facile dilabuntur, possunt, si mavis, considerari ut sporulæ in catenulam digestæ.
- 1. Schizothyrella quercina (Lib.) Thum. M. U. 1684, Schizothyrium 3641 quercinum Lib. in Roum. F. Gall. n. 612. Peritheciis hypophyllis, innatis, hemisphæricis, nigris, in lacinias 4-6 dehiscentibus, excipuli contextu parenchymatico fuligineo, distincto, nucleo luteo-rubello; sporulis filiformibus seu in catenulas longissimas digestis, cylindricis utrinque obtusis, $15 \approx 1\frac{1}{2}$, quadrilocularibus, loculis ipsis denique secedentibus, $4 \approx 1\frac{1}{2}$, hyalinis v. pallide melleis.

Hab. in foliis quercinis frigore necatis prope Malmedy in Arduennis (Libert). — Fungus singularis ob fructificationem ad Blennorium Buxi Fr. et Leptothyrium? botryoides Sacc. accedens. Sec. Speg. in Roum. Rev. Myc. adsunt subinde hyphæ intermixtæ ramulosæ nodulosæ, septulatæ, crassiusculæ, hyalinæ.

2. Schizothyrella australis (Sp.) Sacc. Schizothyrium australe Speg. 3642 F. Argent. n. 128. — Peritheciis superficialibus, sparsis, primo globosis vel difformi-lenticularibus, clausis, atris, dein laciniatim dehiscentibus, epithecio sordide ceraceo-albo, coriaceo-membranaceis, contextu indistincte parenchymatico atro; sporulis cylindraceis, hyalinis, filiformibus, longitudine varia, mox in articulos cylindraceos utrinque truncatos, 10-25 \(\alpha\) 3, secedentibus.

Hab. in ligno putrescente decorticato Excacaria (Sapii) biglandulosa in sepibus prope la Recoleta Argentina.

PROTOSTEGIA Cooke in Grevillea p. 19. (Etym. protos primus et Stegia, h. e. quasi initium Stegia). — Primo tecta, dein denudata, discoidea, margine lacerato, dentato fimbriatove, disco gelatinoso. Sporulæ filiformes, continua, pedicellatæ, dein liberæ.

Protostegia Magnoliæ (Rav.) Sacc. Stegia Magnoliæ Rav. Fungi 3643
 Amer. n. 320, Ellis North Amer. n. 676. — Peritheciis disciformibus erumpentibus, atris, gregariis, hypophyllis; sporulis anguste cylindraceis, curvis, fasciculatis, 30 ≈ 0,5, subhyalinis.

Hab. in foliis languidis Magnoliæ glaucæ in Carolina inf.

ONCOSPORA Kalch. in Grevillea 1880, p. 19 (Etym. oncos uncus et spora). — Perithecia erumpentia, cupuliformia vel discoidea, plerumque gregaria, disco nudo, gelatinoso. Sporulæ hyalinæ, continuæ, flexuosæ, in sporophoris tenuissimis acrogenæ. — Subinde substipitata et emergens sæpeque cæspitosa.

Oncospora bullata Kalch. et Cooke South Afr. Fungi in Grevillea 3644
 1880. — Maculis bullatis, nigris; peritheciis gregariis, discoideis, atris, margine elevato; hymenio fusco; sporulis subclavatis, ha-

matis vel sigmoideis, simplicibus, 30 = 7.

Hab. in foliis Capparidis citrifoliæ in Africa australi. — Cæspitulum Mollisiæ Dehnii fere æmulatur. Sporulæ signum interrogationis (?) sæpe imitantes.

EPHELIS Fr. Fungi Mex. in B. et C. Cub. Fungi n. 567 et in Summa Veg. Scand. p. 370. (Etym. *epi* supra et *helos* clavus vel tuberculum). — Stroma subeffusum, sclerotioideum, atrum. Perithecia pezizoideo-aperta, stromate inserta. Sporulæ cylindraceæ vel filiformes, continuæ, hyalinæ.

Ephelis mexicana Fr. Fungi Mex. sec. B. et C. Cub. Fungi n. 567. 3645
 Stromate solido nigro, Dilophosporæ ad instar; peritheciis pezizoideis, expositis; sporulis filiformibus, exiguis 25 μ. longis, basidiis minutis suffultis.

Hab. in inflorescentia Graminum, quæ in stroma atrum sclerotioideum mutatur. — Videretur Pezizu minuta e stromate nigro enata.

2. Ephelis brevis B. et Br. Fungi of Ceyl. n. 800. — Solida, nigra; 3646 sporulis minutis, brevibus, linearibus, 4 μ . longis.

Hab. in Anthisteria tremula, Peradeniya, Ceylon. — Habitus ab initio Sclerotii Clavi.

3. Ephelis viridans (K. et C.) Sacc. Oncospora viridans Kalch. et 3647 Cooke South Afric. Fungi in Grev. 1880, pag. 20. — Epiphylla, cospitosa, erumpens; peritheciis atris, substipitatis, in stromate pulvinato-congestis; disco cinereo; sporulis cylindricis vel subclavatis, rectis vel curvulis, 20 \(\pi 3.5\), hyalinis; sporophoris gelatina viridi immersis.

Hab. in foliis Capparidis Guienzii in Africa australi.

Genera dubia vel excludenda.

coccos granum et bolos jactus). - Perithecium tenuiter membranaceum, nigrum, latitans, insculptum cubilibusque coaretatum, simplex, pulpa gelatinosa fluxa farctum caque dein ex vertice dimoto prominulo denuoque contracto propulsa, sphærica, limpida, superficiali, mox (siccando) coacta vesicæformi. Sporulæ (ascidia Wallr.) exilissimæ, sphæricæ, gelatime innatantes, in globulum ejectæ.

1. Coccobolus castaneus Wallr. Fl. crypt. n. 3648. — Globulo spo. 3648 rophoro emerso, primum limpido dilute, dein saturatius fusco, ni-

tido, majusculo.

Hab. ad ligna decorticata fraxinea in Thuringia.

2. Coccobolus aëneus Wallr. Fl. crypt. n. 3649. — Globulo sporophoro 3649 emerso, primum vinoso, dein aëneo-virente, melanophæno, parvo.

11ab. ad frustula ligni faginei in Hercynia infer.

AMPHISPORIUM Link Obs. II. p. 40, t. I. f. 6, Wallr. Fl. crypt. gen. n. 266 (Etym. *umphi* et *sporu*, ob sporulas dimorphas). — Perithecium persistens. Sporulae dimorphae, aliae globulosæ, aliae fusiformes, nudæ.

1. Amphisporium versicolor Link I. c. Wallr. I. c. n. 2083. — Peri- 3650 thecio convexo, pallido, submucoso; sporulis concoloribus biformibus fareto.

Mab. ad bulbos Hyacinthi, sub aqua, hyemis tempore demersos in Germania (Link). — Perithecii colore mutabilis, primum albus, dein lutescens, denique pallido-cinerescens.

ENDOTRICHUM Corda Anl. pag. 147 et Icon. II. p. 25, f. 24 (Etym. endon intus et thrix floccus). — Perithecia carbonacea, innata v. immersa, dein rima longitudinali rarius irregulariter dehiscentia, intus nucleo sporularum colorato, floccis continuis intertexto. Basidia spuria dein secedentia, monospora. Sporulæ heterogeneæ, continuæ, irregulariter inspersæ. — Species unica E. xylogrammicum 3651 Corda l. c. In lignis in Bohemia. Sporulæ 3-1 2. l., ellipticæ, fuscæ.

NEURŒCIUM Kunze in Fr. Summa Veg. Scand. p. 370 (Etym. nevron nervus, fibra, et oicos domus). — Perithecia innata, oblonga, in ambitu floccoso-radiantia, rima longitudinali discoideo-aperta. Sporulæ maximæ, intus grumosæ in thalamo pellucide fibroso dense

conglutinata. — Species unica N. Degueliæ Kunze. In foliis De-3652 gueliæ scandentis in Brasilia. — Videretur Sphæropsiden dimidiata, prope Leptostroma; nisi sporulæ maximæ sint asci.

MICROSTICTA Desm. Ann. Sc. nat. 1849, p. 360 (Etym. micros parvus et sticlos punctatus).

1. Microsticta vagans Desm. l. c. Perisporium speireum Fr. S. M. 3653 II. p. 350, Depuzeu speireu Corda II. p. 27, f. 98. — Peritheciis adnatis, planiusculis, orbiculatis, opacis, atris, ceterum superficialibus.

Hab. in pag. inf. foliorum variarum plantarum in Suecia, Galtia etc. — «Fere absque dubio sistit incunabula Microthyrii microscopici».

Microsticta Pomi (Mont.) Desm. l. c., Labrella Pomi Mont. Ann. 3654 Sc. nat. 1834, p. 347. — Maculis nullis; peritheciis ellipticis, minimis, rugosis, nitidis, dein (teste Thum.) apertis et excipuliformibus; sporulis subglobosis, dilute griseolis, 7 y. diam. (teste Thum.):

Hab. in epicarpio Piri Mali in Gallia, Italia, Germania et Amer. bor. etc.

PLEOSPOROPSIS Œrst. Syst. Pilz. p. 55. (Etym. Pleospora et opsis aspectus). — Perithecia globoso-depressa, initio læticoloria, dein fusca, subsuperficialia, papyracea, dein vertice circumscisso operculatim dehiscentia; contextu hexagono-parenchymatico, pellucido. Sporulæ continuæ, ovoideæ, majusculæ, pallide flavæ. — Ambiguum genus, forte non diversum a Mycogulacte. Cfr. pag. 185.

Pleosporopsis strobilina (A. S.) Œrst. l. c., Licea strobilina A. S. 3655
 Consp. p. 109, t. VI. f. 5, Perichæna strobilina (A. S.) Fr., Corda
 Ic. V. p. 56, f. 30. — Peritheciis gregariis cinnamomeis, dein sordide fuscis, glabris; pulpa sordide flava pulverulenta; sporulis ovoideis, subpellucidis, extus subgranulosis, 22-26 p. longis.

Hab. in pag. inf. bractearum strobilorum Pinorum et Λbietum in Gallia, Germania, Bohemia, Britannia.



REPERTORIUM

SPHÆROPSIDEARUM EXCIPULACEARUM

SECUNDUM MATRICES

Obs. A. indicat Amerosporium. — Ai. Amphisporium. — C. Catinula. —
Co. Coccobolus. — D. Dothichiza. — De. Discella. — Di. Dinemasporium.
— Du. Discula. — E. Excipula. — Da. Excipularia. — Ei. Excipulina.
— Eu. Endotrichum. — Es. Ephelis. — G. Godroniella. — H. Heteropatella. — L. Lemalis. — M. Microsticta. — N. Neuræcium. — O. Oncospora. — P. Pleococcum. — Pa. Pseudopatella. — Pi. Pilidium. — Pl. Pleosporopsis. — Po. Polynema. — Pr. Protostegia. — Ps. Psilospora. — S. Sporonema. — Sa. Schizothyrella.

N. 3519 — 3655 citantur 519 — 655

Abies — E. 525. — S. 590. — Pl. 655. Acer — Du. 572. 573. — Di. 624. Adenostyles — A. 597. Alisma — L. 558. Amelanchier — De. 632. Andropogon — Di. 610. 614. Anthisteria — Es. 646. Arbutus — S. 588. Arundo — Di. 610. 619.

Betula - Di. 626.

Capparis — 0, 644. — Es. 447.

Carex — E. 523. — P. 592. — A. 608.

— Di. 610.

Carica — E. 527.

Carpinus — Du. 574. — Di. 620.

Carya — A. 603.

Cassandra — De. 633.

Castanea — Di. 619. 620. — Po. 630.

— Pa. 635.

Ceanothus — Du. 567.
Citrus — Du. 569.
Clematis — Ea. 638.
Collinsonia — E 542.
Conium — A. 592.
Corylus — C. 560. — Di. 619.
Cyperacew — P. 592.

Darlingtonia — Du. 579. Deguelia — N. 652. Dianthus — Di. 617.

Empetrum — E. 535.

Equisetum — A. 609.

Erica — S. 588.

Euclea — Pi. 640.

Euphorbia — H. 551. — A. 598.

Eutriana — Di. 610.

Executiana — Sa. 642.

Fagus — Ps. 594. — Co. 649. Fraxinus — A. 604. — Co. 648.

- Galium E. 538.
- Glycine E. 524.
- Graminaceæ P. 592. A. 607. Pi. 610. 611. 616. 628. — Es. 645.
- Hemerocallis E. 540. Hyacinthus — Ai. 650.
- 11ex A. 603.
- · luglans C. 562.
- Inneus G. 519. Dn. 582.
- Kalmia Du. 575.
- Labiatæ Di. 619.
- Lathyrus P. 593.
- Laurus Ei. 636.
- Linaria H. 550.
- Liriodendron E. 532.
- Magnolia Du. 566. Pr. 643.
- Mangifera C. 661.
- Medicago S. 584. Di. 610.
- Mespilus S. 586.
- Nymphaea S. 587.
- Osmunda E. 545.
- Phragmites Di. 612, 613.
- Phytolacea E. 520, 531.
- Pinus E. 534. D. 557. L. 55%.
 - S. 590. Pl. 655.
- Pirus Du. 580. S. 591. M. 654.
- Plantago E. 536.
- Platanus Du. 564, 565.
- Populus -- E. 526. -- D. 555. 556.

- Prosopis Du. 581. Prunus - D. 552.
- Quercus E. 521. Du. 568. S. 585. Ps. 595. Di. 619. 620.
 - Pa. 635. Sa. 641.
- Rhamnus D. 554. Di. 620.
- Robinia Di. 619, 620, 621.
- Rumex E. 543.
- Salix E. 528. Du. 570. 571.
 - De. 631. Pi. 639.
- Sambueus S. 589. Di. 622. De. 634.
- Sarothannus A. 601.
- Scirpus Di. 629.
- Silene Di. 619.
- Sorbus D. 553.
- Spartium A. 601.
- Spiraca E. 522, 533.
- Stellaria E. 537.
- Typha E. 544.
- Ulex A. 602.
- Ulmus E. 529.
- Urtica Du. 578. Di. 619.
- Vaccinium S. 588.
- Valeriana Ei. 637.
- Verbascum E. 539.
- Vitis E. 530.
- Yucca Du. 583. P. 592.
- Zea Di. 615.

MELANCONIEÆ Berk.

Outl. Brit. Fungol. p. 323, emend. Sacc. Mich. If. p. 10.

Stilbosporew, Coryneacew, Cytisporacew Fr. p. p. — Phragmidiacew, Nemasporew, Tubercularinew Bon. p. p. — Coryneacew, Cwomacew, Phragmidiacew etc. Corda p. p. — Melanconiew, Ægeritew etc. Payer p. p. — Uredinew Kickx p. p.

Fungi perithecio ascisque carentes, ex acervulis subcutaneis denique partim erumpentibus sæpius molliusculis constantes, sordidi, grisei v. læte colorati. Sporæ (conidia) basidiis variis subinde obsoletis suffultæ e strato proligero, plus v. minus evoluto, oriundæ.

Clavis analytica generum.

Sect. 1. Hyalosporæ Sacc.

Conidia globosa, ovoidea, oblonga v. breve cylindracea, continua, hyalina v. rarius dilute colorata.

A) Conidia mutica seu non aristata.

§ Acervuli incrmes seu setis carentes.

I. Conidia solitaria, nec catenulata.

Hainesia. Acervuli mox erumpentes, læticolores, subtremelloidei, phyllogeni. Glæosporium. Acervuli diu teeti, grisei v. pallidi, subceracei, phyllogeni v. caulicoli.

Myxosporium. Acervuli din tecti, grisei v. heticolores, majusculi, subceracei, in ramis arborum parasitici.

Melanostroma. Acervuli erumpentes, subcornei, atri, discoidei, conidiis pallidis copiose obducti.

II. Conidia catenulata.

Hypodermium. Acervuli oblongi, hysterioidei, atri, duriusculi.

Myxosporella. Acervuli discoidei, leticolores, molliusculi.

Blennoria. Acervuli discoidei, fusci, compactiusculi, puccinioidei; basidia typice dichotomo-ramosissima; conidia breve bacillaria, subhyalina.

Agyriella. Acervuli depresse pulvinati, atro-nitentes; basidiorum rami pluries verticillato-ramosi, hine capitato-conidiophori; conidia breve cylindracea.

Trullula. Acervuli depresso-conoidei, atri, perithecioidei, mox erumpentes; basidia brevinscula, simplicia v. parce ramosa; conidia oblonga v. cuboidea, hyalina v. dilute colorata.

Myxormia. Acervuli discoideo-scatellares, olivacei v. cinerei; conidia typice per isthmos catenulato-connexa.

Bloxamia. Acervuli truncati, inferne atri et solidi, superne pallidi et subevanidi; conidia subeuboidea.

§§ Acervuli margine setosi.

- Colletotrichum. Acervuli fere Glæosporii, setulis atris (Vermicularice ad instar) eineti.
 - B) Conidia aristata.
- Pestalozziella. Acervuli minuti, fere phyllostictoidei; conidia apice aristà ramosà ornata.

Sect. 2. Scoleco-allantosporæ Sacc.

Conidia cylindrica, nunc longa filiformia, nunc breviora suballantoidea, continua, subhyalina.

Cylindrosporium. Acervuli subeffusi in foliis subvivis subepidermici, albi v. pallidi; conidia filiformia, sæpe tortuosa.

Cryptosporium. Acervuli figurati, sæpius saprophyti, atri v. grisei; conidia fusoideo-falcata, majuscula.

Libertella. Acervuli difformes, sæpe læte colorati, saprophyti; conidia filiformi-falcata, longa.

Næmospora. Acervuli difformes, sæpe læte colorati, saprophyti; conidia allantoidea breviuscula.

Sect. 3. Phæosporæ Sacc.

Conidia globosa, oblonga v. elongata, continua, fuliginea v. olivacea.

Melanconium. Conidia in apice basidiorum solitarie acrogena, globosa vel oblonga.

Cryptometa. Conidia in apice basidiorum solitarie acrogena, fusoidea sæpe arcuata.

Thyrsidium. Conidia in apice basidiorum catenulata et verticillato-capitata, globosa v. oblonga.

Sect. 4. Didymosporæ Sacc.

Conidia ovoidea, subfusoidea v. oblonga, 1-septata, hyalina v. fuliginea.

Didymosporium. Conidia fusca, solitaria, h. e. non concatenata. Species saprogenæ.

Bullaria. Conidia fusca, catenulata et per isthmos hyalinos connexa. Species saprogenæ.

Septomyca. Conidia subhyalina, solitaria, h. e. non concatenata. Species saprogene, rami-fructicole.

Marsonia. Conidia subhyalina, solitaria, h. e. non concatenata. Species biogenæ, typice foliicolæ.

Sect. 5. Phragmosporæ Sacc.

Conidia oblonga v. breve cylindracea, 2-pluriseptata, fuliginea v. hyalina.

§ Pheophragmice: conidiis fuligineis.

I. Conidia mutica seu non ciliata.

A) Conidia solitaria seu non concatenața.

Stilbospora. Conidia oblonga, non rostrata, mox exsiliendo atro-inquinantia; acervuli jugiter tecti.

Coryneum. Conidia oblonga, non rostrata, non effluentia nec fedantia; acervuli erumpentes.

Scolecosporium. Conidia elougata, fusca, apice curvo-rostrata, pallidiora. Asterosporium. Conidia stellato-lobata, lobis pluriseptatis.

B) Conidia per isthmos filiformes concatenata.

Seiridium. Conidia chlonga, fusca, isthmis hyalinis connexa.

II. Conidia hyalino-ciliata,

Hyaloceras. Conidia utrinque, incurvo-1-ciliata, fusca.

Peslalozzia. Conidia fusca, apice 1-ciliata (Monochetia), v. pluri-ciliata (Eu-Pestalozzia), rarius tota hyalina v. subhyalina (Pestalozzina).

§\$ Hyalophragmiæ: conidiis subhyalinis.

Rhopalidium, Conidia longe clavata, solitaria; acervuli fusci.

Septoglaum. Conidia oblonga vel fusoidea, solitaria; acervuli plerumque pallentes.

Prosthemiella. Conidia cylindracea, basi stellatim connata; acervuli supra læticolores.

Sect. 6. Dictyosporæ Sacc.

Conidia oblonga, piriformia v. rhombea, pluri-septato-muriformia, fusca.

Steganosporium. Conidia sontaria, h. e. non concatenata, olivacea v. fuliginea. Phragmotrichum. Conidia catenato-superimposita, isthmis cylindraceis connexa, atra.

HAINESIA Ell. et Sacc. (Etym. a cl. W. J. Haines botan. americano e West Chester), Gloeosporium Sacc. ex p. — Acervuli subcuticulares sed mox erumpentes, pulvinati, minuti, phyllogeni, læticolores, sæpius flavo-rubentes, subtremelloidei. Conidia oblonga v. suballantoidea, continua, hyalina, in basidiis filiformibus, sæpe ramulosis fasciculatis acro-pleurogena.

Hainesia rhoina Ell. et Sacc. Gloeosporium? rhoinum Sacc. F. it. 3656
 t. 1035. — Maculis hypophyllis subcircularibus expallentibus, atromarginatis; acervulis innato-emergentibus, pulvinatis, subsuccineis; conidiis suballantoideis, curvulis 10-12 ≈ 3; basidiis copiose simpliciter v. bis ramosis, 56-70 μ. altis, ramulis interdum verticillatis, bacillaribus, hyalinis, coacervatis vero luteolis.

Hab. in pag. inf. foliorum Rhois glabræ, Narvesa (Treviso)

Ital. bor. et New Jersey Amer. bor.

2. Hainesia tremellina Sacc. Mich. II. p. 168, F. it. t. 1039. — Acer-3657 vulis hypophyllis, discoideo-convexis, mox superficialibus, succineis, ½ mill. diam.; conidiis fusoideo-falcatis, utrinque acutis, 8-9=114 hyalinis, in basidiis filiformibus, 45=1, acro-pleurogenis.

Hab. in foliis emortuis Aceris campestris, Conegliano (Spegazzini). — Contextus tenuissimus radiatus (an genuinus?) vi-

sus est circa acervulos.

3. Hainesia Rubi (West.) Sacc. Glocosporium? Rubi West. Exs. n. 3658 980, Sacc. F. it. t. 1024, Tremella foliicola Fuck. Symb. myc. p. 402. — Acervulis subcuticularibus, mox subsuperficialibus, hypophyllis, rarius epiphyllis, rubescentibus, pulvinatis, dein fuscidulis et collabascentibus; conidiis oblongis, 6-10 \(\pi 2-3.5\); basidiis bacillaribus furcatis vel ramulosis, conidio 5-6-plo longioribus.

Hab. in foliis Ruborum, socio Phragmidio et Uredine, in Belgio, Italia, Gallia, Germania. — Diagnoses auctorum satis dif-

ferunt, tamen eandem speciem sistere videntur.

GLOEOSPORIUM Desm. et Mont. in Ann. Sc. nat. 1849, p. 295, em. Sacc. Mich. II. p. 10 (Etym. gloios viscosus et spora). — Acervuli v. nuclei sub epidermide foliorum v. caulium nidulantes, disciformes v. pulvinati, demum sæpius erumpentes, pallidi v. fusci. Conidia ovato-oblonga, rarius oblongata, continua, hyalina, sæpe tandem in cirrum v. globulum conglutinata et erumpentia. Basidia typice bacillaria v. acicularia, fasciculata. — Sub nomine Gloeosporellæ el. Penzig egoque (Fung. Mortol. n. 132) Gloeosporii subgenus distinximus conidiis estipitatis notabile, sed, præsentibus speciebus conidia brevissime stipitata gerentibus, distinctio, usquedum species omnes plenius explorentur, non admittenda videtur.

I. In foliis Dicotyledonearum.

1. Gloeosporium Martianoffianum Thüm. Pilzfl. Sibir. n. 676. — Acer- 3659 vulis hypophyllis, gregariis, punctiformi-irregularibus, liberis, vix



elevatis, subdisciformibus, saturate fuscis, sine macula; conidiis clavatis, simplicibus, basi angustatis, vertice dilatatis truncatisve, enucleatis, 20-24 \approx 5-6, dilute fuscescentibus; basidiis longis, inæquilateralibus v. nodulosis, subtortuosis vel inflexis, æque fuscellis.

Hab. in foliis vivis Aquilegiæ glandulosæ in monte Kerlygan Sibiriæ asiaticæ. — A Glocosporio Aquilegiæ Thüm. characteribus notatis differt.

2. Gloeosporium Aquilegiæ Thum. Pilzfl. Sibir. n. 144. — Acervu- 3660 lis amphigenis, plano-subdisciformibus, griseo-fuscis, mediis, dense gregariis in macula arescendo fusco-ochroleuca, latissime fusco-marginata; conidiis simplicibus, ellipticis, utrinque obtusatis, 12-15 = 5, achrois.

Hab. in foliis vivis Aquilegiæ glandulosæ, Minussinsk Sibiriæ asiaticæ.

3. Gloeosporium Ficariæ (Berk.) Cooke Handb. n. 1413, Cylindro. 3661 sporium Ficariæ Berk. Ann. N. H. n. 135. — Acervulis minutis, albis; conidiis inæqualiter oblongis, leviter curvis, in cirros v. grumulos albos supra folia adhuc virentia expulsis.

Hab. in foliis Ranunculi Ficariæ, frequens, in Britannia.

— A vero Cylindrosporio Ficariæ scolecosporo omnino diversum videtur.

4. Gloeosporium Hepaticæ Peck 33 Rep. St. Mus. 26. — Maculis la- 3662 tis, irregularibus, sæpe totum folium decolorantibus, nigro-brunneis; pustulis minutis, sparsis, epiphyllis, cirris crassiusculis, in sicco carneis; conidiis oblongis vel cylindricis, hyalinis, utrinque obtusis, leniter curvatis, 15-25 ≈ 6,5-7,5, plerumque 4-nucleatis.

Hab. in foliis Hepatica acutiloba in montibus Helderberg America borealis.

5. Gloeosporium Haynaldianum Sacc. et Roum. Reliq. Libert. IV. n. 174. 3663

— Acervulis sparsis, subepidermicis, dein emergenti-prominulis, disciformibus ½ mill: diam., sordide roseis; conidis tereti-oblongis, utrinque subrotundatis v. acutiusculis, 12-15 \(\pi 2,5-3\) hyalinis; basidiis filiformibus fasciculatis, 31-40 \(\pi 1\), 5, hyalinis.

Hab. in foliis Magnoliæ grandifloræ, ubi maculas ochraceas generat, in Arduennis (LIBERT).

6. Gloeosporium Hamamelidis Cooke Hedw. XII. p. 26. — Amphige- 3664 num; maculis suborbicularibus, 1 cent. latis, atrofuligineis, hinc illine pertusis; conidiis subellipticis, obtusis, rectis vel leniter curvulis, hyalinis, 10 ≈ 2,5-3.

Hab. in foliis Hamamelidis Virginicæ, in Carolina Americæ borealis.

7. Gloeosporium concentricum (Grev.) Berk. et Br. Ann. N. H. n. 3665 441, Cylindrosporium concentricum Grev. Sc. Fl. t. 27. — Acervulis minutis, albidis, concentrice dispositis, subcuticularibus; conidiis copiosis breve cylindraceis, truncatis, continuis, hyalinis, dein in grumulos minutos erumpentibus.

Hab. in foliis adhuc vivis Brassicæ in Britannia et Germania. — «Ex icone Grevillei dubia mihi species».

8. Gloeosporium hians Penz. et Sacc. Fung. Mortol. n. 46, tav. V. 3666 fig. 27. — Acervulis dense congregatis, majusculis, brunneis, hypodermicis, depressis, pseudo-perithecio tenui, in apice late ostiolato; conidiis oblongis, utrinque paullum attenuatis, rotundatis, eguttulatis, plasmate granuloso farctis, rectis, 19-22 \approx 8-9, basidiis simplicibus, cylindricis, continuis, hyalinis, 10-15 \approx 2-3.

Hab. in sepalis clausis (alabastris) Capparidis spinosæ, Mortola Ital. bor. (O. Penzie).

9. Gloeosporium phacidioides Speg. Nov. Add. ad Myc. Ven. n. 140, 3667 et Mich. II. p. 284. — Maculis submarginalibus, semicircularibus, pallide melleis, primo parvulis, dein totum folium occupantibus, acervulis subepidermicis atris lenticularibus, 80-90 μ . diam., hypothecio crassiusculo membranaceo-fuligineo; basidiis cylindricis quandoque fumosis, apice rotundatis $10-20 \approx 3$ ornato; conidiis cylindraceis utrinque rotundatis, rectis vel curvulis, granuloso-farctis, $8-10 \approx 2^{1}/_{2}-4$.

Hab. in foliis Helianthemi vulgaris in pascuis alpinis Duram (Zoldo, Cadore) Italiæ bor.

10. Gloeosporium Violæ B. et Br. Ann. N. H. n. 1703. — 'Maculis 3668 pallidis, demum albis; acervulis perexiguis, solitariis; conidiis aurantiacis, dein supra folia effusis.

Hab. in foliis Violæ odoratæ, Glamis Britanniæ.

11. Glocosporium Tiliæ Oud. Mat. Myc. Néer. II. p. 31, t. X. f. 20, 3669 Sacc. F. ital. t. 1054. — Maculis nullis v. obsoletis; acervulis minutissimis, fuscis, tandem apice erumpentibus; conidiis ovato-oblongis, utrinque acutatis vel obtusatis, hyalinis, continuis, 11-14 = 4-7, nubilosis vel guttulatis, hyalinis; basidiis subfusoideis conidium dimidium superantibus.

Hab. in foliis Tiliæ grandifoliæ, T. ulmifoliæ etc. in Hollandia, Italia, Austria.

12. Gloeosporium Aquifolii Penz. et Sacc. F. Mont. Gen. n, 132. — 3670

Acervulis laxe gregariis, hypodermicis, vix prorumpentibus, nigris, conspicuis, pseudo-perithecio hypharum contextu parenchymatico composito, nigrescente, haud ostiolato; conidiis pseudo-perithecii parieti insertis, muco hyalino insitis, oblongo-ellipticis, utrinque attenuatis, acutiusculis, simplicibus, hyalinis, eguttulatis, $12-14 \approx 5-6$; basidiis nullis.

Hab. in foliis siccis Ilicis Aquifolii in Monte Generoso Insubriæ (O. Penzic).

13. Gloeosporium Hesperidearum Catt. Sacc. F. it. t. 1186, Mic. Agrumi p. 12. — Acervulis gregariis, numerosis, sparsis in vasta macula arida foliorum vel in foliis emortuis, erumpentibus; basidiis
obsoletis, fasciculatis, cylindricis; continuis, simplicibus, hyalinis
vel basi dilute fuligineis, 8-12 ≤ 4-5; conidiis cylindricis, utrinque
rotundatis, rectis, eguttulatis, hyalinis, 14-18 ≤ 5-6,5.

Hab. in foliis languidis vel emortuis Citrorum, Messina Si-

ciliæ (Borzi), S. Terenzo (GIBELLI).

14. Gloeosporium depressum Penz. in Mich. II. p. 447, F. it. fig. 3672 1185. — Acervulis in maculis aridis sparsis, hypodermicis, depressis, brunneolis, demum prorumpentibus; basidiis fasciculatis, simplicibus, hyalinis, filiformibus, $20-24 \approx 2-3$; conidiis elongato-ellipticis, hyalinis, $7-8.5 \approx 2.5-4$.

Hab. in foliis languidis Citrorum, Padova (Penzia), S. Teren-

zo (Gibelli) in Italia.

Gloeosporium Hendersonii B. et Br. Ann. N. H. n. 1702. — Acer- 3078 vulis sparsis, hypophyllis, placentæformibus; conidiis oblongis, 12,5–15 μ. long., nucleo leniter colorato.

Hab. in foliis Citri Aurantii in tepidariis in Britannia.

16. Gloeosporium Aurantiorum West. in Bull. de l'Ac. roy. des sc. 3674 de Belgique, 1854, p. 7, n. 19. — Maculis amphigenis, magnis, irregularibus, immarginatis, griseo-fuscis; acervulis minutis bullosis, albis; conidiis copiosissimis, ovoideis, hyalinis, subinde 2-guttulatis, in grumulos subcarneos ejectis.

Hab. in foliis languidis Citri Aurantii pr. Namur Belgii (Limminghe). — Ita describit speciem cl. Penzig (Mich. II. p. 447) secundum adumbrationes cl. Cattanei, ex exemplaribus belgicis desumptas: acervulis amphigenis minutis, sparsis, hypodermicis, demum erumpentibus; nucleo gelatinoso; basidiis filiformibus, tenuissimis; conidiis linearibus, utrinque obtasis, hyalinis, 3 u. long.

17. Gloeosporium intermedium Sacc. F. it. tab. 1043, Mich. II. p. 118.
 Acervulis gregariis, punctiformibus, nigris, dein erumpentibus, 2675

 $^{1}/_{6}$ - $^{1}/_{5}$ mill. diam.; basidis fasciculatis, subsimplicibus, continuis, basi fuligineis, $18-25 \approx 4-5$; conidiis elongatis, utrinque rotundatis, rectis, hyalinis, eguttulatis, $14-18 \approx 4-6$.

Hab. in foliis languidis Citri Aurantii sat frequenter in Gallia et Italia. — Inter G. affine et macropus fere medium. — Var. subramulosum Mich. II. p. 168, F. it. t. 1044: a typo differt basidiis simplicibus v. breviter furcatis, parce septulatis, $15-30 \approx 3-41/2$, e strato proligero fuscidulo oriundis; conidiis oblongis, $15-18 \approx 4-5$, utrinque obtusiusculis, 3-4-guttulatis, hyalinis. In foliis emortuis Carludovicæ et Citrorum in calidariis horti patavini. — Var. Epidendri: basidiis, $28-30 \approx 2,5-3$. In radicibus aëreis Epidendri culti in Gallia. — Var. hrevipes: basidiis $14-18 \approx 3$. In foliis languentibus Fici elasticæ in calidariis in Gallia. — Var. Poinsettiæ: conidiis oblongis utrinque rotundatis, $18-20 \approx 5-6$; basidiis crassiusculis brevibus, $12-15 \approx 4$, suffultis. In ramis Poinsettiæ pulcherrimæ in calidariis in Gallia.

18. Gloeosporium macropus Sacc. Mich. I. p. 217, F. it. t. 1033. — 3676 Maculis nullis; acervulis sparsis punctiformibus, nigrescentibus; basidiis fasciculatis, elongatis, simplicibus, continuis, hyalinis, basi fuligineis, $48-60 \approx 3.5-5$; conidiis elongatis, utrinque rotundatis, guttulatis, hyalinis, $18-21 \approx 4-6$.

Hab. in foliis languidis Hoyæ carnosæ et Citri Aurantii in frigidariis horti patavini, in scapo florigero Aloës Hanburyanæ, Mortola Ital. bor.

19. Gloeosporium Aceris Cooke Grev. XII. p. 26. — Hypophyllum; 3677 maculis irregularibus, cinereo-fuligineis, hinc inde pertusis; conidiis 18 = 5, ellipticis, obtusis, rectis flexuosisve, hyalinis.

Hab, in foliis Aceris rubri in Carolina Amer, bor.

20. Glocosporium acerinum West. Exs. n. 979, Kickx Fl. cr. Fl. II. 3638 p. 94. — Acervulis hypophyllis, fusco-rubellis, sparsis, epidermidem pallide flavidam reddentibus indeque perforantibus; conidiis subcylindricis, fn cirrum pallide rubescentem erumpentibus.

Hab. in foliis Aceris Pseudoplatani in Belgio, et Aceris platanoidis, Gorizia.

21. Gloeosporium Schweinfurthianum Thüm. Fungi Austro-Afr. in 3679 Grev. — Acervulis epiphyllis, subgregariis, sine macula, mediis, plano-verruciformibus sublenticularibusve, dilute olivaceis, vix emersis; conidiis longe ellipsoideis, simplicibus, utrinque subobtusatis, homogeneis, achrois, 16-18 × 7-8.

Mab, in foliis vivis et languidis Erodii glaucophylli in deserto ad Wadi-Dugla pr. Cairo.

22. Gloeosporium frigidum Sacc. Mich. II. p. 168, Fungi Ital. t. 1023. 3680 — Acervulis gregariis, amphigenis, in partibus dealbatis foliorum immersis et vix erumpentibus, subglobosis, carneis contraque lucem pellucidis; conidiis cylindraceis, curvatis; utrinque rotundatis, 22-26 \(\times 3\frac{1}{2}-4\), minute 4-6-guttulatis, hyalinis; basidiis teretibus brevioribus, 12-15 \(\times 2-2\frac{1}{2}\), raro sub-ramulosis suffultis.

Hab. in foliis Evonymi japonici, hiemis 1880 intensissimo frigore (usque -13 centigr.) necatis, in horto patavino Italiæ bor.

23. Gloeosporium Mygindæ Winter Contr. Myc. Lus. n. 785. — Acer- 3681 vulis sparsis, immersis, punctiformibus, parum concavis, demum denudatis, fusco-atris, 130-150 μ. lat., non maculicolis; conidiis oblongis, basin versus parum attenuatis, hyalinis, continuis, intus granulosis, seu 2-3-guttulatis, 14-21 ≈ 5,3-7, basidiis simplicibus, longiusculis, hyalinis suffultis.

Hab. ad folia arida Mygindæ pallentis in horto botanico Coimbra Lusitaniæ.

24. Gloeosporium ligustrinum Sacc. F. Gall. Ser. V. n. 2177 in Mi- 3082 scell. mycol. — Maculis foliorum amphigenis rufo-ochraceis, vix marginatis, majusculis; acervulis hypophyllis gregariis subcutaneo-erumpentibus discoideis, punctiformibus, ochraceo-fuscis; conidiis anguste fusoideis, leniter curvis, 12-16 = 1,5, minute 5-6-guttulatis, hyalinis; basidiis fasciculatis exiguis filiformibus e basi stromatica fusca cellulosa oriundis.

Hab. in foliis Ligustri? Perrottetii culti, Saintes Galliæ (BRUNAUD).

25. Glocosporium Rhois (West.) Kickx Fl. crypt, Fl. II. p. 96, Lepto- 3683 thyrium Rhois West. Exs. II. n. 544. — Maculis griseo-brunneis, dein subplumbeis; acervulis epiphyllis, brunneis subrotundis vel inæqualibus; conidiis clavulatis, rectis curvulisve; cirro albido, obsoleto.

Hab. in foliis Rhois speciei in horto botanico Gand Belgii. — β. Fuckelii Sacc., Leptothyrium Rhois Fuck. Symb. myc. p. 383, t. II. f. 27: conidiis anguste fusoideis, 14-15 ≈ 2. In foliis emortuis Rhois Cotini et Carpini Betuli in Rhenogovia.

26. Gloeosporium Pseudo-phoma Penz. et Sacc. Funghi Mortol. n. 42, 3684 tab. V. fig. 25. — Acervulis gregariis, hypodermicis, demum erumpentibus, pseudo-perithecio nigerrimo, contextu parenchymatico, haud ostiolato, 180-220 p. diam.; conidiis breviter ellipticis, utrinque rotundatis, hyalinis, 13-16 ≈ 7-8, muco abundanti obvolutis, ipsi pseudo-perithecii parieti insertis; basidiis nullis.

Hab. in ramulis siccis Calycotomes spinosæ, Mortola Ital. bor. (O. Penzig).

27. Gloeosporium Kurzeanum Niessl F. Eur. n. 2471, Sacc. F. it. t. 3685 1020, Mich. II. p. 541. — Acervulis laxe gregariis, innato-erum-pentibus, sordide fusco-roseis, minutis; conidiis oblongo-cylindraceis, 18 = 4, curvulis rectisve, binucleatis hyalinis; basidiis bacillaribus conidium subæquantibus, hyalinis, e strato proligero fuscello oriundis.

Hab. in foliis Leguminosæ cujusdam, Calcutta Indiæ (Kurze).

28. Gloeosporium Cytisi B. et Br. Ann. N. H n. 1897, Grev. 1881, 3686 p. 49. — Maculis pallidis semel v. bis rubro-zonatis; acervulis minutis; conidiis minutis, ellipsoideis.

Hab. in foliis Cytisi Laburni, Glamis Britanniæ. — Diagnosis citata fert: «perithecia» pro acervulis, sed talia in Gloeosporio non occurrunt.

29. Gloeosporium Patella Penz. et Sacc. F. Mortol. n. 44. t. V. f. 26. 3687 — Acervulis gregariis, nigris, epiphyllis in foliorum maculis arescentibus; conidiis oblongis, utrinque rotundatis, rectis vel leniter curvulis, eguttulatis, plasmate granuloso farctis, 12-16 = 5,5-7; basidiis brevibus, simplicibus, continuis, hyalinis, cylindraceis, 10-13 = 3-3,5.

Hab. in foliis Hardenbergiæ ovatæ, quæ enecat, Mortola Ital. bor. (O. Penzig).

30. Gloeosporium Trifolii Peck, 33. Rep. St. Mus. p. 26. — Maculis 3688 suborbicularibus concentrice zonatis, brunneis; conidiis oblongis vel cylindricis, obtusis, simplicibus, hyalinis, 15-23 \times 4-6,3.

Hab. in foliis vivis Trifolii pratensis, Albany in America boreali.

31. Gloeosporium Cydoniæ Mont. Syll. Cr. n. 664, Sacc. F. it. t. 1037. 3689 — Epiphyllum, maculis irregularibus confluentibus brunneis rugulosis; acervulis dense gregariis, pallidis, punctiformibus; cirris tenuissimis niveis; conidiis cylindraceis, curvulis, 15-20 \times 2-21/2, utrinque obtusiusculis, hyalinis, basidiis teretibus dimidio brevioribus suffultis, denique protrusis.

Hab. in foliis languidis Cydoniae vulgaris in Gallia, Italia, Lusitania, Austria, Africa australi.

32. Glocosporium Fragariæ (Lib.) Mont. in Kickx Fl. cr. Fl. II. p. 36300 93, Leptothyrium Fragariæ Lib. Exs. n. 162. — Maculis indeterminatis, rubescentibus, epiphyllis; acervulis applanatis, rugulo-

sis, nigricantibus, nitidulis (ex epidermide atrata?); nucleo griseolo; conidiis cylindraceis 4-5-guttulatis.

Mab. in foliis Fragariæ et Potentillæ in Gallia, Germania, Britannia, Belgio, America boreali. — «An Marsoniæ Potentillæ forma? sed conidia descripta in Kickx l. c. prorsus diversa.»

33. Gloeosporium Sanguisorbæ Fuck. Symb. myc. p. 368, t. I. f. 34. 3691 — Hypophyllum; acervulis (peritheciis?) erumpentibus, gregariis, in macula fusca, punctiformibus, hemisphæricis, siccis concavis, fuscis; conidiis oblongis, simplicibus, 8 ≈ 4, hyalinis.

IIab. in foliis subvivis Sanguisorbæ officinalis in Rhenogovia et Sibiria asiatica.

34. Gloeosporium Venetum Speg. Mich. I. p. 477. — Maculis margi- 3692 nalibus, amorphis, maxmis, vel centralibus rotundis parvulis, melleis vel ochraceis, linea fusco-purpurascente cinctis; acervulis minutis, prominulis, gregariis vel solitariis, atris; conidiis elliptico-cylindraceis, 7-8 \sime 2-21/2. granulosis et guttulatis, hyalinis.

Hab, ad folia viva vel languida Rubi Chamemori, Belluno et Conegliano Italia borealis.

35. Gloeosporium tubercularioides Sacc. Mich. I. p. 130, F. it. t. 3093 1041. — Maculis nullis; accervulis minutissimis, gregariis, epidermide velatis, dein erumpentibus, carneolis; strato proligero crassiusculo e cellulis subrotundo-angulosis, crasse 1-2-nucleatis, dilute ochraceis conflato; basidiis cylindraceis simplicibus v. breve verticillato-ramulosis, apice incrassatis vel rarius attenuatis remote septatis hyalinis; conidiis in apice basidiorum v. ramulorum acrogenis ovato-oblongis, 12-15 = 5-8, continuis, rectis curvulisve hyalinis.

Hab. in pagina inferiore foliorum languentium Ribis aurei Berolini Germaniæ (P. Magnus). — Conidia solitaria in ramulis, subcapitata in apice basidiorum.

36. Gloeosporium Ribis (Lib.) Mont. et Desm. in Kickx Fl. cr. Fl. II. 3694 p. 95, Sacc. Mich. II, p. 117. F. ital. t. 1036, Leptothyrium Ribis Lib. Exs. n. 258. — Maculis orbicularibus, minutis, confluentibus, brunneis; acervulis epiphyllis, (ob cuticulam atratam) perithecioideis, applanatis, rufo-brunneis, intus albidis; conidiis oblongis, curvulis, 10 ≈ 5-6, apice subrostratis, hyalinis.

Hab. in foliis Ribis rubri, R. nigri. R. acicularis in Gallia, Germania, Belgio, Italia, Britannia, Austria, Sibiria asiatica, Amer. bor. — In forma Ribis nigri americana adsunt coni-

dia 15-20 μ . l., hinc crassiora, parce curva v. utrinque aequalia et magis curva et tunc 25 μ . longa.

37. Gloeosporium curvatum Oud. Mat. Fl. Neerl. II. p. 28. — Macu- 3605 lis hypophyllis fuscescentibus; acervulis prominentibus, parvulis; conidiis mucilagine primitus obvolutis, tandem sub forma cirrorum brevium crassorum alborum erumpentibus, oblongis, fortiter curvatis sive falcatis, utrinque obtusis, 2-guttatis, hyalinis, 14-20 = 5-7.

Hab. in foliis Ribis nigri, Putten Hollandiæ.

38. Gloeosporium Helicis (Desm.) Oud. Fungi Neerl. n. 196. Sacc. 3696 F. it. t. 1026, *Cheilaria Helicis* Desm. Ann. Sc. nat. 1847, p. 27. Maculis epiphyllis, fuscis vix marginatis; acervulis lenticularibus minutis, subochraceis; conidiis oblongo-clavatis, deorsum incurvatis, intus granulosis, $22 \approx 6-7$, hyalinis.

Hab. in foliis Hederæ Helicis in Gallia et Hollandia.

39. Gloeosporium paradoxum (De Not.) Fuck. Symb. p. 277, Myxo-3697 sporium paradoxum De Not. Micr. ital. II. n. 10, Fusarium pezizoides Desm. XX. Not. (1852) pag. 19. — Maculis nullis v. obsoletis; acervulis disciformibus, gregariis, succineis, epidermide velatis, amphigenis; conidiis ovoideis, basi subtruncatis, 8 ≈ 5-6, hyalinis, basidiis cylindraceis, 12-15 ≈ 6, fasciculatis, hyalinis suffultis.

Hab. in foliis Hederæ Helicis, sæpissime socio statu ejusdem ascoph. Trochila Craterio in Italia, Gallia, Lusitania, Belgio, Germania.

40. Gloeosporium tineum Sacc. Mich. I. p. 219, F. ital. t. 1055. — 3698 Maculis arescendo pallidis, variiis; acervulis hypophyllis, subochraceis, epidermide velatis; conidiis cylindraceis curvatis, $20-25 \approx 2^{1}/_{2}-3^{1}/_{2}$, guttulatis hyalinis, basidiis filiformibus 15 μ . longis, fuscidulis suffultis.

Hab. in foliis Viburni Tini, Selva (Treviso) Ital. bor.

41. Gloeosporium Orni Sacc. Mich. I. p. 219, F. it. tab. 1061. — Ma- 3699 culis variiş arescendo subochraceis, fusco-cinctis; acervulis subcircularibus epidermide (pseudo-perithecio) nigrificata, dein rimose (?) dehiscente velatis; conidiis oblongis utrinque acutatis, 7-8 = 3, stipitellatis, ad medium subconstrictis, 2-nucleatis, hyalinis.

Hab. in pag. super. folior. Fraxini Orni, Covolo Italiæ bor.
-- Ad Marsoniam vergit.

42. Gloeosporium Lychnidis Oud. Mat. Myc. Neerl. II. pag. 29 et 3700 Aanw. I. p. 3, t. XVI. f. 2. — Maculis epiphyllis fuscescentibus;

acervulis sparsis, minutissimis, disciformibus, 1/4-1/5 mill. diam. centro dilutioribus fere-achromis, margine saturatius coloratis; conidiis clavatis, 25 = 4-5, hic truncatis hinc rotundatis, pedicellatis, hvalinis sæpe 2-guttulatis; basidiis filiformibus conidio sesquilongioribus.

Hab. in foliis Lychnidis diurnæ, Harlemmerhout Neerlandie. - «An forma immatura v. abnormis Marsonice Delastrei?»

43. Gloeosporium Kalchbrenneri Rabenh. in Kalchbr. Szep. Gomb. II. 3701 p. 276. - Acervulis conidiorum croceis, siccitate expallentibus, nitidis, subdiaphanis, diametro (plerumque 17-18 u.) duplo longioribus, ovatis vel (sessilibus) clavæformibus, gelatinosis, pressione in guttas quasi oleosas aureas diffluentibus.

Hab. in foliis Inulæ ensifoliæ in Hungaria.

44. Gloeosporium hawaiense Thüm. Fung. Exot. n. XVIII. in Roum. 3702 Rev. Mycol. - Acervulis epiphyllis vel amphigenis, gregariis, subdiscoideis, orbiculatis, sordide fuscis, majusculis, planis in macula irregulari vix arescendo cinerea, stellulata; basidiis brevibus, hyalinis, cylindricis; conidiis plus minusve cylindraceis, utrinque rotundato-obtusatis, rectis v. subarcuatulis, hyalinis, 14-18 = 3,5-4,5,

Hab. in foliis vivis Lobeliæ macrostach yæ Insula Eahu in Archipel. Hawai Ocean. Pacif. (MANN et BRIGHAM, Com. Dr.

Keck.).

45. Gloeosporium truncatum (Bon.) Sacc. Reliq. Lib. Ser. IV. n. 175, 3703 Micropera truncata Bon. Abhand. p. 133. — Acervulis erumpentibus, epidermide obscurata arcte cinctis, disco rufescenti-pallido, impolito; conidiis teretiusculis, 12-13 = 2,5-3, hyalinis; basidiis subnullis.

Hab. in foliis Vaccinii Vitis-idææ in Arduennis et Guestphalia.

46. Gloeosporium alpinum Sacc. Mich. I. p. 130, F. it. tab. 1025. - 3704 Maculis nullis; acervulis hypophyllis, epidermide tumidula velatis, variis, sordide albis; conidiis oblongo-cylindraceis, utrinque obtusiusculis, 14-15 = 3-4, curvulis, quandoque versus medium tenuiter constrictis, sæpius 2-nucleatis, hyalinis, basidiis brevibus oblongis fultis.

Hab. in pagina inferiore foliorum viventium Arctostaphyli alpini prope Innichen in Pusterthal Tyroliæ (Doct. Fr. Thomas in herb. Magnus).

47. Gloeosporium? succineum Sacc. Mich. II. p. 146. — Acervulis 3705 hypophyllis, gregariis initio epidermide velatis, mox erumpenti-

superficialibus, tremelloideis, pulvinatis, succineis; basidiis dense fasciculatis oblongis crasse cylindraceis, $40-45 \approx 12-14$, 2-3-septatis, apice eximie obtusiuscule papillatis; conidiis sphæricis, 15-20 μ . diam., flavo-aureis.

Hab. in pag. inf. Rhododendri chrysanthemi in M. Borus Sibiriæ asiaticæ. — Num conidia sint bene evoluta v. meræ plasmatis guttulæ, dijudicare nequeo; ergo de genere quoque dubium restat.

48. Gloeosporium americanum Speg. Fungi Arg. Pug. II. pag. 36. — 3706 Maculis epiphyllis, candidis, determinatis, parvulis, 1-3 mill. diam.; acervulis minutissimis, 70-90 µ. diam., atro-olivaceis, primo epidermide tectis, dein erumpentibus; conidiis ellipticis vel subovoideis, medio vix sinuoso-constrictis, utrinque obtuse rotundatis, 10-12 ≈ 4-5, hyalinis, granuloso-nubilosis.

Hab. in foliis vivis Araujæ albentis, San José de Flores in Rep. Argentina.

49. Gloeosporium affine Sacc. Mich. I. p. 129, F. it. t. 1053. — Ma 3707 culis arescendo dealbatis variis; acervulis sparsis, sæpe epiphyllis, initio epidermide nigricante velatis, dein cirrose erumpentibus; conidiis cylindraceo-oblongis, utrinque rotundatis, 14-20 = 4-6, nubilosis, hyalinis; basidiís filiformibus brevibus fultis.

Hab. in foliis coriaceis Hoyæ, Vanillæ etc. in horto botanico patavino (Saccardo); et in foliis Orchidearum in calidario horti botanici dresdensis (P. Magnus).

50. Gloeosporium sphærelloides Sacc. Mich. I. p. 92, F. it. t. 85. — 3708 Acervulis amphigenis, punctiformibus, initio epidermide velatis, nigris,; basidiis dense fasciculatis, filiformibus, septulatis, subsimplicibus, $40-50 \approx 3-5$, fuligineo-ochraceis, sursum hyalinis; conidiis ovato-oblongis, $10-12 \approx 5-6$, guttulatis v. nubilosis, hyalinis.

Hab. in foliis exsiccatis Hoyæ carnosæ in horto botanico patavino, et Acaciæ Melanoxyli prope Coimbra Lusitaniæ. — majus Penz. Michelia II. pag. 449: acervulis amphigenis, punctiformibus, initio epidermide velatis, nigris; basidiis dense fasciculatis, subsimplicibus, filiformibus, sinuosis, septulatis, fuligineis, 40-50 μ. long., 3-3,5 μ. crassis; conidiis cylindrico-elongatis, utrinque rotundatis, hyalinis, guttulatis, 16-20 μ. long., 4-4,5 μ. crassis. In foliis delapsis Citri Aurantii in frigidariis horti patavini (O. Penzie).

51. Gloeosporium australe Sp. F. Arg. Pug. III. n. 131. — Acervulis 3709 minutis, subepidermicis, pulvinato-erumpentibus, albo-pellucidis; co-

nidiis ellipticis v. elliptico-cylindraceis, utrinque obtusis, $5-8 \approx 2-3$, hyalinis, continuis, catenulatis, e strato proligero hyalino oriundis.

Hab. ad folia viva Physalidis hirsutæ in maculis Entylomatis australis en la Boca del Riachuelo Argentinæ. — Status microconidicus Entylomatis australis Speg.

52. Gloeosporium arvense Sacc. et Penz. Mich. II. p. 633. — Acer-3710 vulis hypophyllis subsparsis v. gregariis, tectis subochraceis, ½ mill. diam.; conidiis oblongis, utrinque rotundatis, 8-9 \(\pi 3,5-4\), rectis, 3-guttulatis, hyalinis; basidiis fasciculatis, bacillaribus, 9-10 \(\pi 2-3\).

Hab. in pag. inf. foliorum languidorum Veronicæ hederifoliæ, Genevæ Helvetiæ (Therry). — An diversum a Gl. Veronicarum mihi imperfecte cognito?

53. Gloeosporium Veronicarum Ces. in Rabh. F. cur. 97, Bot. Zeit. 3711 1859, p. 629. — Acervulis subcutaneis..... cirris fugacibus..... sporulis tenuissima mucilagine conglutinatis.....

Hab. in foliis subvivis Veronicæ officinalis, V. hederifoliæ in Italia boreali, Rhenogovia et Belgio.

54. Gloeosporium Mougeotii Desm. Ann. Sc. nat. 1851, p. 296, Sacc. 3712 F. it. t. 1047. Maculis nullis v. obsoletis; acervulis gregariis exiguis, erumpentibus, sordide et pallide ochraceis; conidiis oblongis, minutis, $5 \approx 1 \frac{1}{2}$ -2, hyalinis, brevissime stipitatis, 2-guttatis.

Hab. in foliis caulibusque Bartsiæ alpinæ in M. Hohneck Vogesorum.

55. Gloeosporium nobile Sacc. Mich. II. p. 153, F. it. tab. 1040. — 3713 Maculis amphigenis circularibus argillaceis, atro-marginatis, 4-5 mill. diam., acervulis immersis disciformibus, ½ mill. diam., laxe gregariis, subochraceis, tandem, epidermide operculatim disrupta, detectis; conidiis fusoideis, leniter curvis, 20-25 ≈ 6-7, deorsum acutioribus, pluriguttulatis hyalinis, basidiis bacillaribus simplicibus, furcatisve, 45-50 ≈ 2¹/₂, quandoque subseptulatis suffultis.

Hab. in foliis Lauri nobilis, Vindobonæ Austriæ (Thümen).

56. Gloeosporium pachybasium Sacc. Mich. II. p. 117, F. ital. t. 1058. 3714

— Acervulis pulvinatis, hypophyllis, subcutaneis, dein subcrumpentibus, ¹/₄-¹/₃ mill. diam., e circulari angulosis, carneolis; conidiis oblongo-ellipsoideis, 14-16 ≈ 6-8, basi apiculatis, apice rotundatis, pluriguttulatis hyalinis, in basidiis crassis obovoideis, 15-20 ≈ 10, subquaternato-acrogenis, rarius et uno alterove conidio pleurogeno.

Hab. in folijs Buxi sempervirentis, Montauban Galliæ et

in Italia boreali. — Basidia subtetraspora, crassa, illa Hymenomycetum in memoriam revocantia!

57. Gloeosporium Laporteæ Peck 33 Rep. St. Mus. p. 26. — Maculis 3715 orbicularibus, luteo-viridibus, centro aridis et fusco-marginatis; conidiis simplicibus, globosis v. ellipticis, hyalinis, 4-6,5 μ. longis, uni-vel binucleatis, globulum pallidum formantibus.

Hab. in foliis vivis Laporteæ canadensis, Charlton America boreali.

58. Gloeosporium nervisequum (Fuck.) Sacc. Mich. II. p. 381, F. it. 3716 t. 1051. Hymenula Platani Lėv. sec. Fuck., Fusarium nervisequum Fuck. Symb. p. 369, t. I. f. 37 (f. Platani). — Acervulis erumpentibus, compactis, prominulis, hypophyllis, rotundatis, ovatis oblongisve, rugulosis, in macula exarida nervisequis et nervicolis, fuscis, demum aterrimis, sæpe spurie longitudinaliter dehiscentibus; conidiis oblongo-ovatis v. obovato-piriformibus 12-15 = 4-6, hyalinis; basidiis bacillaribus longis, 20-25 = 2,5-3.

Hab. ad nervos foliorum languidorum Platani orientalis in Germania, Italia et Gallia. — A Gloeosp. Platani (Mont.) Oud. quocum junxeram (Mich. II. pag. 218), satis differt acervulis compactioribus, multo obscurioribus, magis prominentibus, nervicolis, basidiis longioribus $20-25 \approx 2^1/2-3$ etc. Quum cl. Montagne ad suum Fusarium Platani referat Hymenulam Platani Lév. (quam cl. Fuck. ad suum Fus. nervisequum duxit), de horum identitate non dubitavi; sed autopsia contrarium docuit. — Forma in foliis Quercus citatur a Fuckelio l. c. prope Æstrich Rhenogoviæ.

59. Gloeosporium Platani (Mont.) Oud. Mat. Myc. Neerl. II. pag. 29, 3717 Sacc. Mich. I. p. 218, F. it. t. 1059 Fusarium Ptatani Mont. Ann. 3, XI. p. 55 et Syll. Cr. n. 1000. — Hypophyllum; acervulis minutis in folio decolorato sparsis, innato-erumpentibus subhemisphæricis rufidulis; conidiis primitus pedicellatis inter formam oblongam et fusiformem admodum variis, 14-15 = 5-6, minute pluriguttulatis, hyalinis; basidiis filiformibus 5-6 u. longis.

Hab. in pagina inferiore foliorum Platani occidentalis et P. orientalis in Gallia, Italia, Belgio et Hollandia.

60. Gloeosporium Salicis West. Herb. crypt. Belg. n. 1269. — Epi. 3718 phyllum; acervulis tectis, confluentibus, in maculis nigris sitis: cirro brevi, curvo, albo; conidiis oblongis, leniter curvatis, contitinuis, utrinque 1-guttulatis.

Hab. in foliis vivis Salicis albæ in Belgio et Parenzo Italiæ borealis.

61. Gloeosporium Tremulæ (Lib.) Pass. in. Rabenh. F. E. n. 1880 et 3719 Hedw. 1874, p. 187, Leptothyrium Tremulæ Lib. Ex. n. 161, Gl. Populi-albæ β. Tremulæ Sacc. Mich. I. pag. 219, Depazea frondicola Fr. Obs. II. p. 365 (verisimillime). — Maculis cinerescentibus oblongis v. subcircularibus, fusco-cinctis; acervulis epiphyllis v. hypophyllis, sparsis, subinde concentricis, ob epidermidem atratam perithecioideis, applanatis, olivaceo-fuscis, rugulosis, denique circumscisso-elabentibus; conidiis fusoideo-botuliformibus, curvulis, 10-15 ≈ 1,7-2; basidiis filiformibus, vix 5-6 μ. longis.

Hab. in foliis Populi Tremulæ in Suecia, Gallia, Italia,

Austria, Germania.

62. Glocosporium sibiricum Thum. Pilzfi. Sibir. n. 493. — Acervulis 3720 hypophyllis, dense gregariis, vix emersis, plano-convexis, griseo-fuscidulis, minutis in macula fusca, late griseo-fusco-marginata, in pagina superiore spadicea, fusco-zonata; sterigmatlbus brevibus, continuis, flexuosis, hyalinis, vertice obtusis; conidiis cylindraceis, simplicibus, subrectis, utrinque obtusatis, anucleatis, $16 \approx 3,5-4,5$ hyalinis.

Hab. in foliis vivis Populi Tremulæ prope Minussinsk Sibiriæ asiaticæ.

63. Gloeosporium Populi-albæ Desm. XXIV. Not. (1857) p. 3, Lepto-3721 thyrium circinans Fuck. Symb. myc. p. 383, t. II. f. 26, Gl. circinans (Fuck.) Sacc. M. V. n. 966. — Acervulis cuticula atratâ tectis, hinc perithecioideis, atro-nitidis, rotundatis, sæpe confluentibus, siccis plicato-rugulosis, planis, in circulum magnum se gradatim augentem dispositis et maculam exaridam relinquentibus; conidiis fusiformibus, subcurvațis, continuis, hyalinis, 12-16 = 3-4.

Hab. in pag. sup. foliorum Populi albæ in Gallia, Lusitania. Italia, Germania.

64. Glocosporium Carpini (Lib.) Desm. in Ann. Sc. nat. 1853, XX. 3722
p. 214, Sacc. F. it. tab. 1021, Leptothyrium Carpini Lib. Exs.
n. 256. — Hypophyllum, minutissimum, rugosum, fuscum; maculis brunneo-olivaceis, irregularibus, non limitatis; pulpa albida; conidiis cylindraceis, falcatis, 10-15 ≈ 0,5, hyalinis.

Hab. in foliis languidis v. subvivis Carpini Betuli in Gal-

lia, Germania, Italia boreali et Austria.

65. Gloeosporium Robergei Desm. Ann. 8c. nat. 1853, XX. p. 214, 3723 Sacc. F. ital. t. 1049. — Macúlis subcircularibus, ochraceis, majusculis; acervulis paucis, minutis, ochraceo-fuscis, cuticulâ velatis dein erumpentibus; conidiis ellipsoideo-oblongis, 12-15 \(\times 8-9\), dilutissime fumosis, nubilosis.

Hab. in maculis foliorum Carpini Betuli in Gallia, Italia, Belgio.

66. Gloeosporium Ostryæ Thüm. Contr. myc. Lus. n. 238. — Acer 3724 vulis epiphyllis, gregariis, minutis, sublenticularibus, nigro-fuscis in macula arescendo ferruginea, irregulari, non limitata, subtus dilute fusca; basidiis longis, arcuatis, dilute fuscidulis, fasciculatis; conidiis cylindrico-ellipsoideis, utrinque rotundatis, bi-quadriguttulatis, subrectis vel arcuatulis, continuis, hyalinis, 5-7 ≈ 2,5-3.

Hab. in foliis vivis Ostryæ virginicæ in horto botanico Coimbra Lusitaniæ (Moller).

67. Glocosporium Coryli (Desm.) Sacc. Mich. II. p. 117, F. it. tab. 3725 1019. Cheitaria Coryli Desm.? in Ann. Sc. nat. 1853, p. 226. — Maculis ochraceis, epiphyllis; acervulis hypo-raro epiphyllis. innato-prominulis, subgregariis, minutissimis, rotundato-oblongis, pallide fuscis, dein brunneis; conidiis oblongis, utrinque rotundatis, 14-15 = 6, medio quandoque lenissime coarctatis, 2-guttatis, hyalinis, basidiis brevissimis, obtusis, basi olivascentibus, suffultis.

Hab. in foliis languidis Coryli Avellanæ in Gallia. — Cfr. Labrella Coryli.

68. Gloeosporium perexiguum Sacc. Mich. II. p. 116, F. ital. tab. 1050. 3726 — Maculis parvis, irregularibus, rufis, dein perforatis; acervulis epiphyllis, pulvinatis, minutissimis, 100 μ . diam., mox erumpentibus, subsuccineis, conidiis ellipsoideo-oblongis, $5-6 \approx 2-3$, hyalinis.

Hab. in foliis nondum emortuis Coryli Avellanæ pr. Saintes Galliæ (Brunaud).

69. Gloeosporium Fuckelii Sacc. Mich. I. pag. 218. Gl. Fagi Fuck. 3727 Symb. App. I. p. 52 (1877), nec Gl. Fagi (Desm. et Rob., 1853). Acervulis epiphyllis in macula exarida irregulari, gregariis, minutis, planis, foliorum epidermide lacerata cinctis; conidiis lanceolatis, quandoque antice obtusis, rectis, continuis, hyalinis, 6-8 = 3.

Hab. in foliis adhuc vivis Fagi sivaticæ in Rhenogovia. — Folia a fungillo invasa colore atro-purpureo mox inficiuntur, qua nota species statim ex longinquo innotescit.

70. Gloeosporium Fagi (Desm. et Rob.) West. Not. VII. p. 12. Sacc. 3728 Fungi ital. t. 1022, Oud. Mat. Myc. Neer. II. p. 29, t. X. fig. 15, Gloeosp. exsiccans Thum. Symb. Mycol. Austr. I. n. 7 (1877), non Gloeosp Fagi Fuck. Symb. App. I. p. 52 (1871) [nunc Gl. Fuckelii], Labrella Fagi Desm. et Rob. in Ann. Sc. nat. 1853, p. 225. — Maculis subcircularibus in foliorum pagina superiore fuscescentibus, in pagina inferiore olivaceo-virentibus, acervulis

minutis, prominulis, submelleis; conidiis oblongo-ovoideis, rarius subrhombeis, $15-20 \approx 7-8$, minute 2-3-guttulatis, hyalinis, basidiis fasciculatis, cylindraceis, conidii dimidiam longitudinem subæquantibus, suffultis.

 $\it Hab.$ in pag. inferiore foliorum Fagi silvaticæ in Gallia, Italia, Belgio, Austria.

71. Gloeosporium quernum Harkn. F. Calif. p. 12. — Amphigenum, 3729 in cirros minutos exsiltens; conidiis hyalinis ellipsoideis v. oblongis, 1-3 vacuolos (guttulas?) continentibus, 12-18 \(\times 4-6\).

Hab. in foliis gemmisque Quercus agrifoliæ, quæ arescunt, in Golden Gate Park Californiæ.

72. Gloeosporium quercinum West. Exs. n. 981, Kickx Fl. cr. Fl. II. p. 3730 95. — Maculis hypophyllis brunneo-virescentibus; acervulis brunneo-rubellis, epidermidem bullosam efficientibus; conidiis ovoideo-oblongis in cirrum flavo-aurantiacum ejectis, hyalinis, $5-6 \approx 2.5$; basidiis bacillaribus conidium æquantibus.

Hab. in foliis languidis quercinis in Belgio, Germania et Gallia.

73. Glocosporium umbrinellum B. et Br. Ann. N. H. 1866, n. 1144, 3731 t. III. f. 5. — Maculis irregularibus, angulosis minutis brunneis; conidiis oblongis, 10-15 µ. longis, 2-nucleatis, subhyalinis, in cirros pallidos irregulares denique erumpentibus; basidiis longis, sæpe furcatis.

Hab. in foliis dejectis Quercus, Batheaston Britanniæ. — Secundum Kickx et Lamb. non diversum a Gl. quercino; mihi tamen distinguendum videtur.

74. Gloeosporium Betularum Ell. et Mart. Amer. Nat. 1882, p. 1002. 3732 — Maculis badio-brunneis, subrotundis, 2-3 mill. diam., nigro-marginatis; pustulis brunneis, amphigenis, 120-140 μ . diam., dein matrice secedentibus et foveolam cupuliformem atram relinquentibus; conidiis hyalinis, obovatis, 9-10,5 \approx 6; basidiis hyalinis.

Hab. in foliis Betulæ nigræ, Betulæ lentæ, Bethlehem Americæ borealis.

75. Gloeosporium Betulæ (Lib.) Mont. Ann Sc. nat. 1849, pag. 296. 3733
Sacc. F. ital. t. 1028, Leptothyrium Betulæ Lib. Exs. n. 163. —
Maculis subcircularibus, olivascentibus v. fusco-nigricantibus; acervulis epiphyllis, depressis, atris, demum erumpentibus, epidermide in lacinias 2-4 lacerata; conidiis bacillaribus v. clavulatis, 13-16

2, hyalinis brevissime stipitatis; cirris albidis.

Hab. in pag. sup. foliorum languidorum Betulæ albæ in

Belgio, Gallia, Germania, Italia. — Gloeosp. Betulæ Fuck. Symb. p. 368, t, I. f. 52 eamdem speciem sistit.

76. Gloeosporium betulinum West. Exs. n. 978 Kickx Fl. cr. Fl. II. 3734 p. 94. — Acervulis hypophyllis, rubiginosis; maculis rufo-ochraceis. in pag. infer. foliorum, sed saturatioribus et fere nigricantibus in pag. sup.; conidiis ovoideis; cirris imperfectis.

Hab. in foliis Betulæ albæ et B. verrucosæ in Belgio

(WEST) et Italia bor. (PASSERINI).

77. Gloeosporium cylindrospermum (Bonord.) Sacc. F. it. tab. 1027, 3735 Leptothyrium cylindrospermum Bon., Fuck. Symb. p. 120. — Maculis epiphyllis fusco-castaneis; acervulis punctiformibus, atris, applanatis; conidiis cylindraceo-fusoideis, 10-15 \(\pi 2^1/_2-3 \), rectis v. leniter curvis, hyalinis.

Hab. in foliis subvivis languidisve Alni glutinosæ in Germania et Italia.

78. Gloeosporium alneum West. Exs. n. 977, Lamb. Myc. Belg. III. 3736 Sacc. Mich. II. p. 563. — Acervulis hypophyllis punctiformibus, subochraceis epidermidem vage rubiginoso-maculantibus; conidiis ovato-oblongis, curvulis, 4-6 ≈ 2-2,5; basidiis obclavatis, 8-10 ≈ 1,5-2, hyalinis.

Hab. in foliis languidis Λlni glutinosæ et A. incanæ in

Belgio et Italia boreali.

79. Gloeosporium leptostromoides Sacc. et Penz. Mich. II. p. 633. — 3737 Acervulis parallelis, linearibus, 1-2 mill. long., atris, dein rimose apertis (hysterioides); conidiis teretiusculis, lenissime curvis utrinque obtusiusculis, 35-40 ≈ 1,5-2, pluriguttulatis, hyalinis; basidiis filiformibus breve vage ramulosis,

Hab. in acubus Pini maritimæ dejectis prope Rouen Galliæ (MALBRANCHE).

II. In ramis, caulibus Dicotyledonearum.

80. Glocosporium Riessii Schulz. et Sacc. Micr. Slav. n. 62, Schulz. III. 3738 fung. Slav. n. 99. — Acervulis epidermide velatis, denique erumpentibus, pulvinato-applanatis, \(^1/_5-\frac{1}{3}\) mill. diam., albidis, intus subochraceis; conidiis allantoideis, utrinque rotundatis, vehementer curvis, 18-25 \(\times 4\), hyalinis; basidiis bacillaribus subæquilongis, hyalinis.

Hab. in ramis corticatis Cydoniæ vulgaris, pr. Vinkovce Slavoniæ.

81. Gloeosporium phæosorum Sacc. Mich. I. p. 260, F. ital. tab. 1038. 3739

— Acervulis ramulicolis, gregariis epidermide velatis, globosis v. oblongis, ¹/₄ mill. diam., nigricantibus, tandem irregulariter erumpentibus; conidiis fusoideis majusculis, 25-28 = 8, raro oblongis, chlorino-hyalinis, granulosis, basidiis, filiformibus, brevibus, quandoque furcatis fultis.

Hab. in sarmentis corticatis Ruborum prope Alençon in Gallia, (C. C. Giller). — Æquo fere jure ad gen. Mywosporium duci

potest.

82. Gloeosporium tortuosum (Thum. et Pass.) Sacc. Mich. II. p. 117, 3740 F. ital. tab. 1031, Fusarium tortuosum Thum. et Pass. Pilz. Weinst. p. 51, tab. 1031. — Acervulis sparsis, subcutaneo-erumpentibus, discoideo-oblongis, sordide griseo-rufis; conidiis cylindraceo-falcatis, utrinque rotundatis, 15-20 ≈ 3, nubilosis, hyalinis, basidiis teretibus, 15 ≈ 2½, suffultis.

Hab. in sarmentis Vitis viniferæ in agro parmensi Italiæ

(Passerini) et prope Rouen Galliæ (Letendre).

83. Glocosporium sarmenticium Mont. in Castagne, Supplem., p. 58, 3741 Syll. crypt. n. 663. — Punctiforme, fuscum, maculis orbicularibus gregariis haud confluentibus; conidiis oblongo-fusiformibus guttulas binas globosas foventibus.

Hab. in sarmentis Vitis viniferæ, apud Montaud in Gallia

(CASTAGNE).

84. Gloeosporium Mollerianum Thüm. Contr. Myc. Lusit. n. 234. — 3742 Acervulis sparsis, raro confluentibus, applanato-disciformibus, sordide fusco-purpureis, plus minusve orbiculatis, mediis; conidiis bacillari-ellipsoideis, rectis vel minime arcuatis, utrinque subobtusatis, simplicibus, uniquadriguttulatis, achrois, 14-18 = 4-5; basidiis fasciculatis, tenuibus, brevibus, curvatis, hyalinis.

Hab. in caulibus emortuis Phytolaccæ decandræ Choupal

prope Coimbra Lusitaniæ (Moller).

85. Glocosporium valsoideum Sacc. Mich. II. p. 381. F. it. f. 1048, 3743 Hymenula ramulorum Pass. Ancora sulla Nebbia d. Gelsi (1884) p. 3. — Acervulis erumpentibns, rufo-lutescentibus, epidermide lacerata cinctis, 3/4-1 mill. d., disco ruguloso; conidiis copiosissimis, ovoideis, vel oblongo-ovoideis, 11-13 \(\times 4\), nubilosis, hyalinis, basidiis fasciculatis deorsum incrassatis, 18-20 \(\times 4\), æque nubilosis, hyalinis suffultis.

Hab. in ramulis junioribus Platani occidentalis in horto patavino, et in agro parmensi Ital. bor. (Bizzozero, Passer.). — A Gl. nervisequo acervulis multo majoribus habituque valsoideo mox

distinguendum; characteribus internis tamen proxime cognatum. — *Myxosporium carneum* (Lib). Thüm, sistit fere formam evolutiorem speciei præsentis, utramque vero coadunare non potui.

86. Gloeosporium angulatum (Cooke) Sacc. Discella angulata Cooke 3744

F. Texas p. 142. — Gregarium, tectum, epidermidem angulatofindens; conidiis fusoideo-elongatis, hyalinis, 20 = 4.

Hab. in ramis arborum, Galveston Texas Amer. bor.

87. Gloeosporium pyrenoides Sacc. et Malbr. Mich. II. p. 633. — 3745 Acervulis subgregariis, epidermide velatis, nigricantibus, depressis, $\frac{1}{3}-\frac{1}{4}$ mill. diam.; conidiis cylindraceo-curvis, utrinque obtusiusculis, $28 \approx 4$, biguttulatis, hyalinis; basidiis fasciculatis brevibus.

Hab. in caule emortuo Libanotidis montanæ, pr. Rouen Galliæ (MALBRANCHE). — Habitus fere pyrenomycetoideus, unde nomen.

88. Gloeosporium? aurantiacum (Link.) Sacc. Cryptosporium auran- 3746 tiacum Link in Wallr. Fl. cr. n. 1597. — Conidiis aurantiacis hypophloeodeis curvis compactis, aurantiacis, sub epidermide grumulos protuberantes dein irregulariter confluentes perficientibus.

Hab. ad caules exsiccatarum herb. elatiorum, Umbelliferarum præprimis in agro wratislaviensi (LINK).

III. In fructibus et gallis Dicotyledonearum.

89. Gloeosporium Lindemuthianum Sacc. et Magnus Mich. I. p. 129, F. 3747 ital. t. 1032. — Maculis epicarpicis, rarius caulo-phyllogenis, subrotundis, arescendo infuscatis, initio rufo-cinctis; acervulis sordide albis in media macula epidermidem pustulatim inflantibus dein erumpentibus; sporophoris fasciculatis, cylindraceis, 45-55 long., simplicibus; conidiis acrogenis, oblongis rectis curvulisve utrinque subrotundatis, $15-19 \approx 3\frac{1}{2}-5\frac{1}{2}$, intus granulosis, hyalinis.

Hab. in leguminibus adhuc vivis, raro caulibus foliisque Phaseoli vulgaris in Germania (Lindemuth etc.) Italia, Gallia, Britannia, Amer. bor. frequens et noxium. — An Septoria Leguminum Desm. (non ejus var. β.) X. Not. p. 10 (1843) sistat hujus Gloeosporii statum juvenilem, dijudicare nequeo; certe descriptio l. c. longe abhorret. Multo propius accedit Gloeosporium fructigenum Berk.

90. Glocosporium Leguminis C. et Harkn. in Grev. 1880, pag. 7. — 3748 Tectum, sparsum; conidiis ovalibus, hyalinis, in massam gelatinosam effluentibus, $12 \approx 6$

Hab. in leguminibus in California. - An affine Glocosp. Lindemuthiano?

91. Gloeosporium Leguminum (C.) Sacc. Discella leguminum Cooke 3749 F. Texas, p. 142. — Congestum; pustulus irregularibus, maculam nigram efformantibus, demum confluentibus; conidiis ellipticis vel piriformibus, 1-nucleat.s, hyalinis, 12-15 ≈ 6.

Hab. in leguminibus Prosopidis, Galveston, Texas America borealis. Sub Discula n. 3581 quoque descripsi. — An potius affine Gl. Lindemuthiano?

92. Gloeosporium Capsularum C. et Hark. in Grevillea. — Grega. 3750 rium, punctiforme, ore fisso-lacerato; conidiis cylindraceis utrinque obtusis, gracilibus, rectis, continuis, hyalinis, 18-20 \(\approx2,5, in grumulos pallidos mox erumpentibus.

Hab. in capsulis emortuis Eucalypti in California Amer. bor.
93. Gloeosporium fructigenum Berk. Gard. Chron. 1856, p. 245 cum icone, Sacc. F. it. t. 1042. — Acervulis concentricis, sordide roseis, nunc poro simplici nunc laciniato erumpentibus, pulvinulatis; conidiis oblongis vel cylindraceis, sæpe curvulis, 20-30 ≈ 5-6, granulosis, hyalinis; basidiis subæquilongis, simplicibus, rarius furcatis, continuis suffultis.

Hab. in fructibus putridis Piri communis in Britannia et Italia.

94. Gloeosporium versicolor B. et C. North Amer. Fungi n. 503. — 3752 Maculis reticulatis griseis, 2-3 cent. lat.; acervulis erumpentibus; conidiis oblongis clavatisque hyalinis, nubilosis, 10 μ. longis (vel in alio specimine, usque 20 μ. longis).

Hab. in fructibus Mali in Carolina infer. Amer. bor. — A Gloeosp. fructigeno habitu omnino diversum.

95. Gloeosporium læticolor Berk. Gard. Chron. 1859, p. 601. — Ma. 3753 culis depressis, centro albicantibus, nigro-marginatis; acervulis circinantibus subroseis; conidiis oblongis, 16-17 μ. longis, plasmate utrinque retracto; cirris pallide roseis.

Hab. in fructibus Persicæ in Britannia.

96. Gloeosporium phomoides Sacc. Mich. II. p. 540 et F. it. t. 1060. 3754

— Acervulis innato-erumpentibus, fuscis, pulvinatis; conidiis oblongo-clavatis, deorsum abrupte attenuatis, apice rotundatis, 10-12 2,5-3, biguttulatis, hyalinis; basidiis bacillaribus, fasciculatis, 20-21 = 1,5, hyalinis e strato proligero celluloso fusco oriundis.

Hab. in epicarpio fructuum Lycopersici esculenti, Sermide (Mantova) Ital. bor. (Magnaguti).

97. Gloeosporium ampelophagum (Pass.) Sacc. Mich. I. p. 217 ka-3755 mularia ampelophaga Pass. Nebb. Moscat. 1876, Phoma uvicola Arcang. p. p., non B. et Br. — Maculis seu pustulis subcircularibus, sæpe confluentibus, baccarum epidermidem strataque corticalia occupantibus et arescendo indurantibus atque rufo- vel fuligineo-nigrificantibus, ad centrum (e conidiis exsilientibus) griseo-vel roseo-pruinosis; acervulis sub epidermide nidulantibus, minutis, dense gregariis, strato proligero pulvinato minute parenchymatico, hyalino v. dilute fumoso, cellulis superficialibus vertice breve apiculato sporigeris; conidiis ex oblongo ellipsoideis v. ovoideis, 5-6 \(\alpha 2\frac{1}{3}\rightarrow 3\frac{1}{3}\rightarrow 2\rightarrow 2\rightarrow 4\rightarrow 4\ri

Hab. in baccis, rarius in foliis et sarmentis adhuc vivis plurium varietatum, pracipue fructu albo, Vitis viniferae, quas maculat, deformat, corrumpit in toto agro Veneto, copiosius in planitie, nec non in Gallia, Austria, Germania. — In iisdem Gloeosporii pustulis quandoque observavi Fusisporium Zavianum Sacc. F. ital. t. 44. nec non Tuberculariam ampelophilam Sacc. Vaj. Vit. l. c. pag. 494, utrumque probabiliter cum Gloeosporio metagenetice conjunctum.

98. Gloeosporium carpogenum Cooke in Grevillea. — Innatum, spar- 3756 sum, cuticula tectum, demum perforatum; conidas elongato-ellipticis, hyalinis, 13-18 = 3,5, in cirros albidos exeuntibus.

Hab. in fructu Æsculi californicæ in Sierra Nevada Californiæ.

99. Glocosporium lagenarium (Pass.) Sacc. et Roum. in Rev. Mycol. 3757 1880, p. 201, not. 5, pl. IX. fig. 1. Fusarium lagenarium Pass. Erb. critt. ital. II. n. 148, Sacc. Myc. Ven. 1041, Gl. reticulatum Roum. ibid. p. 169-172, nec Fusarium reticulatum Mont. Ann. Sc. nat. Bot. II. XX. p. 379, pl. 16, fig. 3 (ubi conidia delineantur falcato-fusoidea, 4-guttata et dein 3-septata. — Acervulis subcutaneo-erumpentibus, sæpius circinantibus, minutis, pulvinulatis, subroseis; conidiis ovato-oblongis, quandoque inæquilateralibus, 16-18 \sim 5-6, continuis, nubilosis, hyalinis, basidiis tereti-fusoideis, 15-20 \sim 3-5, hyalinis, fasciculatis suffultis.

Hab. in epicarpio, rarius in ipso caule Cucumeris Melonis et Colocynthidis, Parma. Treviso, Padova in Italia bor. et Paris et Toulouse Galliæ, frequens et valde noxium. — Fusasarium cyclogenum meum (Myc. Ven. p. 569 et Fung. Ven. Ser. V. p. 197) nil est, ut nunc opinor, nisi genuinum Fusarium reticulatum Mont., intermixto Gloeosporio lagenario. Nec negarem utrumque invicem metagenetice connexum esse.

100. Gloeosporium Cucurbitarum B. et Br. Linn. Trans. II. p. 68. — $_{3758}$ Maculis læte aurantiacis depressis cirriferis; conidiis clavatis, breviter stipitatis, $10-22~\mu$. longis.

Hab. in epicarpio Cucurbitæ, Brisbane Australiæ. — An diversum a Glocosp. lagenario?

101. Glocosporium orbiculare Berk. in Just. B. Jahr. 1876, p. 1274, 3759 Cytispora orbicularis Berk. Ann. N. H. n. 106, t. VII, f. 6, My-aosporium orbiculare Berk. Outl. p. 325. — Plagulas orbiculares formans; acervulis confluentibus uno alterove poro communi erumpentibus; conidiis exiguis, oblongis, pallide vinosis, in cirros tenues expulsis.

Hab. in fructu Cucurbitarum in Britannia.

102. Glocosporium epicarpii Thum. Symb. myc. Austr. VII. n. 70. — 3760 Maculis numerosis plus minusve orbiculatis vel ellipticis subdepresso-scutelliformibus, griseo-fuscis, exaridis, indeterminate angusteque rufo-fusco-marginatis; acervulis sparsis epidermide tectis demum perforantibus conico-pustulatis, nitide nigricantibus, minutis; conidiis fusiformibus utrinque subacutatis, 12 = 4.5, vel curvato-ellipsoideis, utrinque subrotundatis, 12 = 6-7, semper 3-guttulatis, guttulis magnis, hyalinis; basidiis fasciculatis, hyalinis, cylindricis, brevibus.

Hab. in epicarpio adhuc vivo Juglandis regiæ pr. Tolmino in Istria (Bolle).

103. Gloeosporium conigenum Sacc. et Roum. Mich. II. p. 633. — 3761 Acervulis subcutaneis, denique rimose parce erumpentibus, intus subolivaceis; conidiis globulosis, $5-6 \approx 4$, basi subattenuatis, hyalinis, basidiis teretibus, $15 \approx 3-3^{1}/_{2}$, apice rotundatis suffultis e basi sporigera cellulosa dilute.lutescente oriundis.

Hab. in squamis strobilorum Abietis excelsæ in Arduennis (Libert).

104. Gloeosporium Gallarum Ch. Rich. in Roum. Rev. Myc. II. p. 91. 3762 Maculis irregularibus, latis, confluentibus, nigris, nitidis, rugulosis; acervulis conicis, punctiformibus; cirris niveis; conidiis albis, cylindricis utrinque obtusis, 14 α. long., basidiis inæqualibus suffultis, 3-5-guttulatis.

Hab. in gallis quercinis, Saint-Amand Galliæ.

IV. In Monocotyledoneis et Acotyledoneis.

105. Gloeosporium punctiforme Sacc. et Ell. Mich. II. p. 574. — Acer- 3763 vulis laxe gregariis subcutaneis, fuscis, mediocribus, 1/2 mill. diam.,

centro epidermidem perforantibus; conidiis ovato-oblongis, biguttulatis, hyalinis, $5-6 \approx 3-3.5$; basidiis e strato proligero celluloso stramineo-fuligineo oriundis, acicularibus, $15-20 \approx 2$, guttulatis, hyalinis.

Hab. in foliis languidis Phormii tenacis pr. Philadelphiam Amer. bor. (ELLIS).

106. Gloeosporium lineolatum Sacc. Mich. II. p. 146, F. it. t. 1045. 3764 — Acervulis parallele digestis, sublirelliformibus, erumpentibus, ¹/₂ mill. long. ¹/₈ mill. cr., nigris; conidiis cylindraceo-falcatis, utrinque obtusiusculis, 25 = 3¹/₂-4, hyalinis, basidiis brevibus, bacillaribus e basi proligera faliginea oriundis suffultis.

Hab. in foliis Xerotis longifoliæ ex Nova Hollandia (herb. horti patav.).

107. Gloeosporium cinctum B. et C. North Am. Fungi n. 504. — 3765 Acervulis minutis gregariis epidermide nigrificata cinctis; conidiis oblongis utrinque obtusis, subinde curvulis, intus granulosis, $10-15\approx 2^{1}/_{2}-3$.

Hab. in Orchideis in calidario cultis, Massachusetts Americæ borealis (Russell).

108. Glososporium Thümenii Sacc. Glocosp. concentricum Thüm. ³⁷⁶⁶ Contr. Fungh. Lit. n. 258, nec Berk. et Br. — Acervulis epiphyllis, concentrice dispositis, gregariis, lenticularibus, griseo-fuscidulis, submagnis, in macula plus minusve sinuosa, arescendo dilute ochracea, indistincte zonata, late viridi-griseo-ciucta; basidiis fasciculatis, brevibus, flexuosis, clavato-cylindraceis, apice obtusis, hyalinis; conidiis clavatis, utrinque rotundato-truncatis, vertice angustatis, grosse bi-guttulatis, 12-15 ≈ 5-6 hyalinis.

Hab. in foliis vivis Alocasiæ cucullatæ in calidariis Strazig. in Littorali austriaco.

109. Gloeosporium Phægopteridis Pass. Micr. ital. bor. n. 17 in Roum. 3767 Rev. mycol. — Maculis irregularibus sordide luteis; acervulis minimis epiphyllis, fila candida, longa cirrosa ejicientibus; conidiis oblongis, crasse fusiformibus, attenuato-stipitatis, rectis vel basi curvis, integris, hyalinis, episporio tenui, endoplasmate eximie granuloso, 28-40 ≈ 10-11, (dempto basidio).

Hab. ad frondes Polypodii Phægopteridis in Apennino parmensi (Lago santo) Ital. bor.

110. Gloeosporium Pteridis Harkn. F. Calif. p. 12. — Hypophylla, 3768 totamque frondis paginam infer. occupans, in cirros crassos exsiliens; conidiis obovatis v. ellipsoideis, hyalinis, 10-24 \approx 6-10.

46

Hab. in fronde Pteridis aquilinæ, Berkeley Californiæ. - Frondem contortam reddit.

- myxosporium Link, Spec. Plant. Fungi II. pag. 99 (Etym. myxa mucus et spora). Acervuli seu nuclei sub arborum peridermio nidulantes, perithecio carentes, sæpius madore molliusculi, pallidi v. rubentes; conidia ovoidea, hyalina v. pallide colorata. Basidia typice bacillaria.
- Myxosporium incarnatum (Desm.) Bon. Handb. p. 56, Sacc. Mich. I. 3769 p. 116, F. it. t. 1073, Nemaspora incarnata Desm. Næm. t. VI. f. 2 (1830). Acervulis epidermide velatis, varie extensis, applanatis v. vix tumidulis, incarnatis; conidiis obovoideis v. obpiriformibus, 15-20 ≈ 8-10, granulosis, dilute carneis; basidiis filiformibus, 20-24 ≈ 2, suffultis.

Hab. in ramis corticatis Gleditschiæ Triacanthi, Salicis albæ, Rhamni et Populi fastigiatæ in Italia, Gallia, Germania, Belgio. — *M. Roumegueri Sacc. Mich. II. p. 354. Conidiis oblongo-ellipsoideis, 25-27 = 8-10, nubilosis hyalinis, basidiis teretibus 20 = 2 suffultis. A typo differt præcipue conidiis non piriformibus et paullo longioribus. — In cortice Cytisi Laburni, Nérac in Gallia austr. (Roumeguère). Cfr. F. it. t. 1074.

2. Myxosporium Russellii (B. et Br.) Sacc. Nemaspora Russellii B. 3770 et C. North Amer. Fungi n. 497. — Acervulis gregariis, epidermide pallida ferme tectis; conidiis fusiformibus subobliquis, 10-13 μ. longis; pedicellis hyalinis conidium æquantibus.

Hab. in ramis Robiniæ, New England in Amer. septent.

3. Myxosporium coloratum (Peck) Sacc. Melanconium coloratum 3771 Peck, Torr. bot. Club. 1883, p. 74. — Acervulis minutis, leniter prominulis; stromate minuto, viridi-luteo; conidiis oblongis v. ovato-oblongis, leniter curvulis, subhyalinis, 12-15 \u2227,2-8, in massam rubram expulsis.

Hab. in cortice Liriodendri Tulipiferæ in Pensylvania.
4. Myxosporium Piri Fuck. Symb. p. 399. Cytispora Piri Fuck. En. 3772
Nass. p. 52. — Peritheciis (?) subsenis nigris; cirris globuliformibus albis; conidiis globosis ovoideisve, 1-2-guttulatis, hyalinis, 20 ≈ 10.
Hab. in ramis Piri communis in Nassovia.

5. Myxosporium prunicolum Sacc. et Roum. Reliq. Lib., Ser. IV. n. 3773 170, f. 49. – Acervulis laxe gregariis, subcutaneo-erumpentibus, pulvinatis, transverse oblongis, prominulis, ³/₄-1 mill. d., intus ochra-

cec-fuscis; conidiis oblongo-ellipsoideis, utrinque rotundatis, $14 \approx 4$; basidiis.... non visis.

Hab. in ramis corticatis Prunorum in Arduennis (Libert).

6. Myxosporium Rosæ Fuck. Symb. myc. p. 399. — Pustulis maju-3774 sculis, atris, in ostiolum conicum, obtusum, perforatum, atrum attenuatis, primo tectis, demum epidermide fissa circumdatis; gelatina fluxili, grisea; conidiis oblongo-ovatis, rectis, vel perparum curvatis, 12 ≈ 4, hyalinis.

Hab. in ramis siccis Rosæ caninæpr. Estrich Rhenogoviæ.

7. Myxosporium Tulasnei Sacc. Cfr. Syll. I. pag. 609 ut st. conid. 3775 Diaporthes [Chor.] longirostris. — Acervulis siccis, unicellularibus, sub corticis epidermide nidulantibus, demum erumpentibus, extus intusque sordide albis; conidiis lineari-oblongis, subcurvatis non guttulatis, 18-25 \(\pi 2,5-3\).

Hab. in ramis crassioribus corticatis Aceris Pseudoplatanii in Gallia et Germania. — «An Cryptosporium?».

8. Myxosporium nitidum B. et C. North Amer. Fung. n. 501. — Acer- 3776 vulis gregariis, intus atris, extus aurantiacis, epidermide e conidiis oblongis minutissimis aurantia tectis.

Hab. in ramis Corni alternifoliæ in Virginia, New England, Pensylvania.

9. Myxosporium australe Speg. Fungi Arg. Pug. IV. n. 308. — Acer-3777 vulis aurantio-carneis, primo subepidermicis, dein erumpenti-superficialibus, late gregariis, orbicularibus, 0,5-1 mill. diam., sæpius ob diffluentiam confluentibus, et matricem strato latissimo, præcipue per corticis rimas excurrente, pulchre flavo-roseo vestientibus; conidiis globosis, e mutua pressione irregulariter atque obtuse angulato-polygonis, 12-22 = 10-15, hyalinis.

Hab. ad truncos et ramos vivos Colletiæ ferocis ad paludes subsalsas «Cangrejales» dictas, prope promontorium «Cabo S. Antonio» in Argentina.

Myxosporium Rhois (B. et C.) Sacc. Nemaspora Rhoidis B. et 3778
 C. North Amer. Fungi n. 496. — Pustulis basi dilatatis, cortice arcte cinctis extus nigris, intus pallidis; conidiis oblongis hyalinis, 13-15 ≈ 3,7-4, utrinque obtusis.

Hab. in ramis Rhois, Maine Amer. bor. (J. BLAKE).

Myxosporium Ulmi (Oud.) Sacc. Discella Ulmi Oud. Hedw. 1883, 3779
 p. 116. — Acervulis plurimis gregariis, superficiem internodiorum ultimorum ramorum annuorum occupantibus, dein, epidermide rupta, phacidioideo-emergentibus, maculas læte coloratas formanti-

bus; basidiis variæ longitudinis, exilissimis, hyalinis, simplicibus vel ramosis; conidiis hyalinis, ovalibus vel obovatis, nonnumquam obliquis, $14-16 \approx 8-9$, protoplasmate exilissime granuloso repletis. *Hab.* in ramulis Ulmi, Amsterdam in Hollandia.

12. Myxosporium hypodermium Sacc. Cryptosporellæ hypodermiæ 3780 st. conid. Fuck. Symb. p. 192. — Acervulis intus gelatinosis albis; cellulis simplicibus, sub epidermide nidulantibus; conidiis ovatis cum guttula oleosa magna et episporio crasso, hyalinis, 24 = 16, in stipitum simplicium apicibus.

Hab. in ramis corticatis siccis Ulmi campestris in Germania. — «An Fusicoccum?».

13. Myxosporium populinum Sacc. Mich. II. p. 116. — Acervulis pul- 3781 vinatis, epidermide tumidula velatis, 1-2 mill. diam., aurantiacis; conidiis subglobosis v. ellipsoideis, $13-15 \approx 10-11$, basi subapiculatis, nubilosis, hyalinis, basidiis filiformibus $15-25 \approx 1\frac{1}{2}$ suffultis.

Hab. in ramis Populi fastigiatæ prope Rouen Galliæ (LETENDRE). — Cfr. F. ital. fig. 1075.

14. Myxosporium Ellisii Sacc. Melanconium hyalinum Ellis, in Torr. $_{3782}$ bot. Club. vol. IX. n. 11, p. 135. — Acervulis subpellucidis inter fissuras corticales nascentibus; conidiis ovato-piriformibus, $11-13 \approx 7,5-8$.

Hab. in ramis Populi italicæ, Decorah, Jowa, Amer. sept. 15. Myxosporium Tremulæ Sacc. et Roum. Reliq. Libert. Ser. IV. n. 3783 171. f. 50. — Acervulis laxe gregariis, subcutaneo-erumpentibus, intus succineis, ³/₄ mill. diam.; conidiis fusoideis, utrinque acutis, rectis, 10 ≈ 2,5, hyalinis.

Hab. in ramis corticatis Populi tremulæ in Arduennis.

16. Myxosporium Populi-tremulæ (Lamb.) Sacc. Gloeosporium Po- 3784 puli-tremulæ Lamb. Fl. myc. Belg. III. p. 181. — Acervulis minutis, albidis, epidermide demum scissa tectis; conidiis ovali-oblongis, continuis, pedicellatis, dein in cirrum albidum exsilientibus.

Hab. in ramis dejectis Populi tremulæ pr. Verviers Belgii.

17. Myxosporium salicinum Sacc. et Roum. Reliq. myc. Lib. Ser. IV. 3885 n. 164, f. 52. — Acervulis gregariis sub-cutaneis, disciformibus depressis, $\frac{3}{4}$ mill. diam., intus subsuccineis; conidiis breve fusoideis $12-14 \approx 4$, subinde inæquilateralibus, utrinque obtusiusculis, granulosis, hyalinis.

Hab. in ramulis salicinis in Arduennis (LIPERT).

18. Myxosporium salicellum Sacc. et Roum. Reliq. myc. Lib. Ser. 3786 IV. n. 165. — Acervulis gregariis pulvinatis, subcutaneo-erumpen-

Melanconieæ, Hyalosporæ, Myxosporium.

725

tibus, prominulis, vix $\frac{1}{2}$ mill. diam., intus albo-ceraceis, farctis; conidiis tereti-oblongis, utrinque obtusis, $10-12 \approx 2$, rectis, hyalinis.

Hab. in ramulis salicinis in Arduennis (LIBERT).

19. Myxosporium Millardetianum Sacc. et Roum. Reliq. myc. Libert. ³⁷⁸⁷ Ser. IV. n. 166, f. 51. — Acervulis globoso-depressis, gregariis, ¹/₂ mill. d., subinde linea nigrescente (diaporthoidea) cinctis, intus succineis; conidiis oblongo-fusoideis, utrinque obtusiusculis, rectis, 10-11 = 3.5, hvalinis; basidiis brevissimis.

Hab. in ramulis salicinis in Arduennis (LIBERT).

20. Myxosporium deplanatum (Lib.) Sacc. Mich. II. p. 354, Didymo- 3788 sporium deplanatum Lib. Exs. ined. — Acervulis circularibus subepidermicis, carnosulis, subolivaceis, nigro-limitatis; conidiis tereti-ellipticis, utrinque obtusiusculis, 10-14 = 3-4, continuis (rarissime uniseptatis), fumose hyalinis.

Hab. in ramulis emortuis Carpini Betuli et Coryli Avellanæ in Arduennis (Libert). — An stat. conid. Anthostomellæ nitidulæ Sacc.?

21. Myxosporium sulphureum Sacc. Diaporthes (Chorostates) sul- 3789 phureu st. conid. Fuck. Symb. p. 126, Sacc. Syll. I. p. 625. — Acervulis sub corticis epidermide nidulantibus, latissime conicis, orbicularibus, 2-21'2 mill. latis gelatina grisea, homogenea repletis, disco centrali, erumpente, orbiculari, applanato seu valde convexo, pulverulento, amœne flavo, demum perforato et massa gelatinosa, diaphana. fusca, expulsa; conidiis late fusiformibus, quandoque inæquilateralibus, continuis, 1-2-guttulatis, 12-16 \simps 5-6, hyalinis.

Hab. in ramis corticatis Coryli Avellanæ in Germania, Helvetia, Gallia et Italia.

- 22. Myxosporium fuscum Bon. Abh. Geb. d. Myk. II. p. 128. Acervu- 3790 lis subconvexis, ostiolo simplici pertusis; sacculis rotundis, lentiformibus, dilute fuscis, muco pallido farctis, papilla conica epidermidem perforantibus; conidiis ovatis, minoribus et maioribus mixtis. Hab. in ramis siccis Coryli in Germania.
- 23. Myxosporium Marchandianum Sacc. et Roum. Reliq. myc. Lib. 3791 Ser. IV. n. 169, f. 54. Acervulis gregariis, subcutaneo-erumpentibus, intus sordide roseis, 1 mill. diam.; conidiis oblongo-ellipsoideis, utrinque rotundatis, 12-13 ≈ 4, hyalinis.

Hab. in ramis corticatis Coryli (ut videtur) in Arduennis (Libert). — β . quercinum S. et R. l. c.: acervulis extus fuscis, intus sordide roseis; conidiis $12-14 \approx 3$. In ramis quercinis in Arduennis (Libert).

24. Myxosporium album (Pr.) Sacc. Naemaspora alba Pr. F. Ho. 3792 yersw. n. 323. — Acervulis (peritheciis?) difformibus, membranaceo-tenuibus, apice papillatis, pertusis, in cortice immersis; nucleo candido; basidiis brevibus; conidiis ovatis, guttulatis.

Hab. in ramis exsiccatis Coryli, Hoyerswerda. — «An Fu-sicoccum?».

- 25. Myxosporium griseum (Per.) Sacc. Cytispora grisea Pers. Syn. 3793 p. 110, Corda Ic. III. p. 26, f. 68. Acervulis subcutaneis depresso-conicis, carnosis, pallidis; conidiis oblongis hyalinis, granulosis, 22-25 \approx 8-9; basidiis filiformibus, ramulosis, continuis, hyalinis.
 - * Hab. in ramulis Coryli Avellanæ in Germania, Bohemia et Anglia.
- 26. Myxosporium carneum Lib. Exs. ined. n. 882, Thum. Hedw. 1880, ³⁷⁹⁴ p. 180, Sacc. F. it. t, 1076. Acervulis subcutaneo-erumpentibus, pulvinatis, subroseis, majusculis, epidermide demum cinctis; conidiis fusoideis, utrinque obtusiusculis, subinde inæquilateris, 15-17 ≈ 3,5-4,5, hyalinis, 2-guttatis; basidiis acicularibus, deorsum incrassatis, 15 ≈ 2,5-3.

Hab. in ramis corticatis Fagi in Arduennis (Libert). — β. sticticum Karst. Symb. XV. p. 159: acervulis elongatis, rarius ellipsoideis v. orbicularibus, peridermio demum rima longitudinali dehiscente tectis, applanatis, flavidis; conidiis elongatis v. oblongatis, rectis, 9-11 = 2-3. — Ad ramos Fraxini excelsioris prope Mustiala Fenniæ.

27. Myxosporium minutulum Sacc. Fungi Ven. Ser. V. n. 269 (Micro-3795 pera), — Acervulis e cortice transverse rimose erumpentibus, vix \(^1/_2\) mill. latis, pallide carneis, inferne lutescentibus; conidiis fusoideis utrinque acutis, \(15-16\)\(\pi 4\), rectis vel raro lenissime curvis, \(2-4\)-guttulatis, hyalinis, in basidiis filiformibus brevibus acrogenis.

Hab. in cortice Castane e vesce, Selva (Treviso) Ital. bor.

28. Myxosporium Taleola Sacc. Diaporthes (Chrost.) Taleolæ st. ma- 3796 croconid. Fuck. Symb. App. I. pag. 312. — Acervulis suborbicularibus planiusculis, carnosulis, intus roseolis; conidiis ovato-ellipsoideis, utrinque obtusiusculis plerumque rectis, 16 ≈ 8..

Hab. in ramis quercinis in Rhenogovia.

29. Myxosporium Lanceola Sacc. et. Roum. Reliq. myc. Lib. Ser. IV. 3797 n. 168, f. 48. — Acervulis gregariis, subcutaneo-erumpentibus, pulvinatis, 1 mill. d., nucleo subcarneo fusco-cincto, disco pallido; conidiis fusoideis utrinque acutis, rectis curvulisve, 20-22 = 4, intus granulosis, hyalinis; basidiis bacillaribus dimidio brevioribus.

Hab. in ramis corticatis Quercus, Betulae in Arduennis (La-Bert).

30. Myxosporium ovatum (Pr.) Sacc. Nemaspora ovata Pr. F. Ho- 3798 yersw. n. 328. — Stromate partito, atro, corneo, irregulariter conico; papillis atris; peritheciis (nucleis?) labyrinthiformibus, confluentibus, albis; pulpa alba; basidiis filiformibus; conidiis ovatis, subapiculatis, hyalinis albis.

Hab. in cortice Betulæ, Hoyerswerda. — «An Fusicoccum?»

31. Myxosporium viride (B. et C.) Sacc. Nemaspora viridis B. et C. 3799 North Amer. Fungi n. 498. — Acervulis truncatis prominentibus; conidiis viridulis, intus granulosis ellipticis v. elliptico-oblongis, 15 ≈ 7, e pedicellis elongatis hyalinis oriundis.

Hab. in ramis Betulæ in America boreali.

32. Myxosporium tumidum (Bon.) Sacc. Achroomyces tumidus Bo- 3800 nord. Handb. p. 135, fig. 231. — Acervulis albidis carnosulis. 2 mill. cr., depressis, epidermide tectis dein laciniatum scissa cinctis; basi sporigera minute cellulosa; basidis initio fasciculatis, septatis, pluries ramosis, apicibus rotundatis, dein acutatis conidiaque cylindracea 3-guttata gerentibus.

Hab. in ramis Betulæ in Germania.

33. Myxosporium bellulum (Pr.) Sacc. Nemaspora bellula Pr. F. Ho- 3801 yersw. n. 33. — Acervulis conicis corticem tollentibus; stromate simplici centro columellam magnam conicam fuscam apice nigram efficiente; nucleo pulposo, albo; basidiis continuis, filiformibus, sæpe furcatis; conidiis oblongis, pellucidis, albis; episporio hyalino, basi hylo instructo, nucleo turbido.

Hab. in ramis alneis, Hoyerswerda.

- 34. Myxosporium brachysporum (B. et C.) Sacc. Nemaspora bra-3802 chyspora B. et C. North Amer. Fungi n. 499. Acervulis elevatis, obtusis, sparsis, liberis; conidiis curvulis reniformibus, 15 \(\pi\)7.

 Hab. in corticibus in America boreali.
- 35. Myxosporium macrosporum Dur. et Mont. Flore Alger. I. p. 331, $_{3803}$ Mont. Syll, n. 1109. Acervulis punctiformibus, albidis, tremelloideis; conidiis magnis, oblongis, hyalinis, muco concolore conglobatis, $40 \approx 10-15$, levibus.

Hab. ad folia Citri Aurantii locis humidis delapsa in Monte Bou-Zareah, prope Alger. (Durieu). — «An potius Glæosporium?».

36. Myxosporium croceum (Pers.) Link Sp. pl. Fungi II. pag. 99, 3804 Corda Ic. fung. I. p. 1, fig. 6, Nemuspora crocea Pers. Syn.

p. 109? Desm. Næm. t. VI. fig. 3. — Acervulis erumpentibus nudisve, aurantiacis, nitidis; cirris confertis inæqualibus flavo-croceis; conidiis subrotundis concoloribus, muco conglutinatis, 20-24 μ . diam. intus granulosis.

Hab. in ramulis dejectis corticatis v. decorticatis Fagi, Quercus lusitanicæ, et in cortice arborum variarum in Britannia, Gallia, Italia, Lusitania, Austria et Amer sept. — Dubium est mihi speciem hanc, saltem italicam, nil esse nisi Enteridii statum immaturum. Cfr. Mich. I. p. 434.

37. Myxosporium dracænicolum B. et Br. Ann. N. H. n. 1896. — 3805 Acervulis aurantiacis; conidiis ovoideis subhyalinis, 8,5 ≈ 5.

Hab. in foliis Dracenæ cultæ in Britannia et valde noxium.

Socia adest Diplodina dracxnicola.

38. Myxosporium Musæ B. et C. North Amer. Fungi n. 502. — Acer- 3806 vulis minutis gregariis, pallide aurantiis, dein obscurioribus minusque conspicuis; conidiis oblongis, 7-8 × 2.

Hab. in fructibus Musæ in Carolina super. (Curtis).

- MELANOSTROMA Corda Icon. I. p. 5, p. 85 (Etym. melas niger et stroma). Stroma immersum planum vel discoideum, corneum, strato conidiorum diffluente tectum. Conidia continua, diaphana, in basidiis minutissimis acrogena. Conidia valde copiosa et forte initio catenulata; sed talia videre non licuit.
- Melanostroma minutum Corda Icon. Fung. I. p. 5, f. 85. Acervulis atris, placentiformibus, strato conidiorum albo-incarnato, diffluente; conidiis minutis fusiformibus, utrinque acutis, diaphanis. Hab. in ramulis arborum, Prag Bohemiæ.
- 2. Melanostroma fusarioides Corda in Sturm. Crypt. III. f. 61. 3808 Acervulis stictiformibus, subcutaneo-erumpentibus, dein subpezizoideis, atris; conidiis cylindraceis, utrinque obtusis, hyalinis, 11-12=3, stratum album subgelatinosum supra stroma formantibus; basidiis perexiguis papilliformibus.

Hab. in ramis corticatis Salicum prope Karlstein Bohemiæ, et in petiolis foliorum Populi in Thuringia (Fleischhak).

HYPODERMIUM Link Spec. Pl. Fung. II. p. 88 (Etym. hypo sub et derma), Schizoderma Fr. Orb. I. p. 194, nec Auct. — Acervuli subcutaneo-erumpentes, sæpe elongati, atri. Conidia ovato-oblonga continua, hyalina in catenulas sat longas digesta, ex strato proligero

ciebus nondum mihi rite cognita.

1. Hypodermium sparsum Link Sp. pl. Fungi II. p. 88, Schizoderma 3809 sparsum (Link) Duby Bot. gall. II. p. 885. - Acervulis subcutaneo-erumpentibus, oblongis, pulvinatis, atris, epidermide scissa cinctis; conidiis ovato-oblongis, 10-20 = 6-8, utrinque obtusiusculis. 4-6-guttulatis, hyalinis in catenulas sat longas digestis, ex strato proligero celluloso, olivaceo-fusco oriundis.

Hab, in foliis Pini silvestris et Abietum in Gallia et

Germania.

2. Hypodermium sulcigenum Link Sp. Pl. Fungi II. p. 88, Schizode, - 3810 ma sulcigenum Duby Bot. gall. II. p. 885. - Acervulis linearibus oblongisque, primum epidermide elevata tectis, dein epidermide rupta sulcos replentibus fuscis.

Hab. ad folia viva et sicca Pini silvestris, P. pumilionis, P. maritimæ in Gallia, Germania et Italia bor. - Epidermis dein rumpitur et fovea oritur, tandem ad 20 mill. longa, in-

tus conidia conglomerata continens.

3. Hypodermium nervisequum Link Sp. Pl. Fungi II. p. 89, Schizo- 3811 derma nervisequum Duby Bot. gall. II. p. 885. - Acervulis linearibus nervisequis hypogenis initio epidermide nitida tectis dein erumpentibus; conidiis..... ad latus acervuli frequenter sparsis.

Hab. ad folia Abietum in Alsatia (NESTLER).

4. Hypodermium Schizoderma Sacc., Schizoderma hypodermoides 3812 Kunze in Fic. Fl. Dresd. II. p. 310. - Acervulis minutis, oblongis, subdiscoideis, atris, erumpentibus, subpulveraceis; conidiis subglobosis.

Hab. in asseribus vetustis in Germania.

5. Hypodermium effusum Schw. Syn. Amer. bor. n. 2956. - Acer- 3813 vulis tenuibus effusis, folium plerumque transversim maculantibus. nigrofuscis.

Hab. in foliis dejectis Pini Strobi, Bethlehem Amer. bor.

MYXOSPORELLA Sacc. Mich. II. p. 381 (Etym. a Myxosporio, cui analogum genus). - Acervuli subcutanei, vix erumpentes, subgelatinosi, perithecio carentes, læte colorati. Conidia ovata vel oblonga, continua diaphana, in catenulas digesta basidiisque teretiusculis suffulta. - Est quasi Myxosporium, conidiis vero catenulatis, nec solitariis.



1. Myxosporella miniata Sacc. Mich. II. p. 381, F. ital. tab. 1072, 3814 Acervulis subcircularibus, convexiusculis, $\frac{3}{4}$ mill. d., amœne miniatis; conidiis ellipsoideis, utrinque rotundatis, $16-20 \approx 10-12$, e roseo hyalinis eguttulatis, in catenulas breves sat persistenter connexis, basidiis teretiusculis, simplicibus furcatisve, parce septatis, $20-40 \approx 5-7$, subroseis suffultis.

Hab. in ramulis corticatis Platani occidentalis in horto botanico patavino Ital. bor. (Bizzozero).

BLENNORIA Fr. S. M. III. p. 480 (Etym. a blenna mucus). — Acervuli disciformes v. pulvinati, erumpentes. Conidia cylindracea, truncata, typice longe catenulata, hyalina. Basidia typice prælonga et ramosissima, apicibus in conidia abeuntibus. — In nonnullis speciebus de conidiorum catenulis nullum verbum fit; hinc incertum est, an huc vere spectent. — Ad Agyriellam accedit.

Blennoria Buxi Fr. Syst. Orb. I. p. 366 et S. M. III. p. 480, Sacc. 3815 Mich. II. p. 356, F. it. t. 1092. — Acervulis amphigenis dein erumpentibus, epidermideque laciniata cinctis, compactiusculis, argillaceofuscis, ³/₄-1 mill. d., basidiis prælongis, filiformibus, iterato dichotome ramosis, sursum in conidia cylindrica, utrinque truncata, 12-15 \(\times 2^1/2 - 3\), biguttulata, hyalina, catenulata abeuntibus.

Hab. in foliis languidis Buxi sempervirentis in Gallia, Germania et Belgio.

2. Biennoria Rubi Mont. Cent. n. 37, in Ann. (1837), 2, VIII. p. 360, 3816 et Syll. n. 1099. — E fibris lignosis canescentibus erumpens; acervulis atris punctiformibus apice planis modiceve concaviusculis; conidiis pedicellatis in gelatina sub aqua celeriter diffluenti, cylindricis minutissimis utrinque truncatis.

Hab. ad ramulos Rubi dejectos decorticatosque circa Andegavum Galliæ (Guérin). — «An conidia vere catenulata?».

3. Blennoria alba Preuss F. Hoyersw. n. 164. — Gregaria, alba, sub- 3817 rotunda, minuta; stromate fusco, pulvinato, carnoso; conidiis cylindricis, parallelis assurgentibus, utrinque truncatis, pellucidis inæqualibus, guttulis oleosis repletis.

Hab. in ligno putrescente, Hoyerswerda.

4. Blennoria Umbellulariæ Cooke et Hark. Calif. F. in Grev. — Acer- 3818 vulis discoideis, atris, convexis, subgregariis, erumpentibus; hyphis bis vel tri-chotomis, erectis, hyalinis; conidiis cylindraceis, terminalibus, utrinque obtusis, continuis, hyalinis, 35-40 ≈ 4.

Hab. in ramis Umbellulariæ in California Amer. bor.

5. Blennoria Rusci Rabenh. D. Cr. Fl. n. 419. — Acervulis brunneo- 3819 atris, applanatis, subcircularibus vix 1 mill. latis, compactiusculis, denique inæqualibus; conidiis utrinque rotundatis.

Hab. in pag. inf. rarius et in sup. Rusci aculeati in Italia superiore (RABENHORST).

Blennoria novissima Rabenh. Fungi europ. exs. n. 2698. — Acer- 3820 vulis subcutaneis, per epidermidem in tubulum productis, globosis, atris; conidiis minutissimis, 2 ≥ 1.

Hab. in pinnis foliorum Cycadis revolutæ senio dealbatis in horto botanico neapolitano (CESATI).

AGYRIELLA Sacc. Misc. Myc. I. p. 20. (Etym. ab *Agyrio* cui habitu similis), *Agyrium* Lib. ex parte. — Acervuli erumpentes, pulvinati, gelatinoso-indurati, nigri. Basidia prælonga, fasciculata, sursum ramosa, ramis pluries verticillato-ramulosis, hinc capitato-co-nidiophoris. Conidia acrogena, oblongo-cylindracea, subhyalina.

Agyriella nitida (Lib.) Sacc. Agyrium nitidum Lib. Cfr. Sacc. Syl- 3821 loge Fung. II. p. 317. — Acervulis majusculis nitidis, depressopulvinatis; basidiis 150-200 μ. longis, quandoque in fasciculos coalescentibus; conidiis subcylindraceis, curvulis, 3-4 ≈ ½, cum basidiis e hyalino dilutissime olivaceis.

Hab. in sarmentis Rubi in Gallia et Germania.

TRULLULA Ces. Bot. Zeit. 1852, p. 397 (Etym. a trulla vasculum), Cesatia Rabenh. in H. Myc. n. 1443, Hormococcus Preuss Linnæa 1852, p. 739, Endhormidium Auersw. Hedw. 1869, p. 89. — Acervuli subcutanei, sed mox erumpentes, discoideo-pulvinati v. conoideo-depressi, atri, compacti, sæpe perithecioidei. Conidia oblongo-cylindracea, continua, hyalina v. olivacea, catenulata. Basidia longa, bacillaria, ramosa v. simplicia, dense fasciculata. — Species nonnullæ lignicolæ a Melanconicis abhorrent, sed ob intimam cum ceteris affinitatem separare nolui.

I. Eu-Trullula.

Basidia ramulosa vel simplicia; conidia olivacea vel fuscella.

1. Truilula olivascens Sacc. Mich. I. p. 94 et II. p. 285, Fungi ital. 3822 p. 91 (Hormococcus). — Peritheciis (spuriis?), sparsis vel subcæspitulosis, innato-erumpentibus e globoso conoideis vertice applanatis, astomis, quandoque (collabascendo?) disciformibus, atris: basidiis dense fasciculatis filiformibus, simplicibus, furcatis vel fasci-



culato-ramosis, $25-30 \approx 1^3/_4-2$, septulatis, hyalinis, apice in conidia cylindracea, $3-6 \approx 1^1/_2-2^1/_2$, utrinque obtusa, continua, olivacea abeuntibus.

Hab. in ramis corticatis putrescentibus Vitis viniferæ, Paliuri aculeati, Paulowniæ imperialis, Lauri nobilis, Persicæ vulgaris, Populi nigræ, Rubi imperialis, Citrorum nec non in fructibus Robiniæ et Paulowniæ, Selva, Padova, Conegliano Italiæ bor. et in Argentina Amer. austr.

2. Trullula hysterioides Speg. Mich. I. p. 478 (Hormococcus). — 3823 Acervulis ligno dealbato innatis, (initio epidermide tectis?) oblongohysteriiformibus, laxe gregariis, atris, parallelis, $1-1^1/_2 \approx 1/_4-1/_3$ mill.; basidiis dense fasciculatis, filiformibus, ramulosis, septulatis, 40-50 2-3, fuscidulis, apice conidia catenulata, cylindracea, utrinque truncata, $3-8\approx 2-21/_2$, fuscidula gerentibus.

Hab. in sarmentis putridis Rubi fruticosi, Conegliano Italiæ borealis.

Trullula Fraxini (Bon.) Sacc. Cesatia Fraxini Bon. Handb. p. 286. 3824
 Acervulis minutis, atris, erumpentibus, perithecio carentibus; conidiis cylindricis, obtusis, concatenatis, in massam griseam, subvitream ejectis.

Hab. in ramis Fraxini in Germania.

4. Trullula tropica (Auersw. et Rabenh.) Sacc. Endhormium tropi- 3825 cum A. et R. in Hedw. 1869, p. 89. — Acervulis ceraceis irregularibus, astomis, subcutaneo-erumpentibus, atris, rugulosis; conidiis moniliformiter catenulatis, angulato-subglobosis, fuscis, 10 \(\mu \) d. Hab. in Podocarpo chilena in Valdivia (W. Lechler).

II. Cesatia Sacc. Basidia simplicia; conidia hyalina.

5. Trullula nitidula Sacc. Mich. II. p. 285 (Hormococcus). — Acer- 3826 vulis pulvinatis, depressis, \(^1/_3-^1/_2\) mill. diam.; initio albo-griseis, dein nigricantibus, levibus, nitidulis; basidiis dense fasciculatis, bacillaribus, \(^{150} = 2-2^1/_2\), continuis, deorsum subhyalinis, sursum olivaceis, cuboideo-guttulatis; conidiis ex interiore apice basidiorum catenulatim exsilientibus, breve cylindraceis, utrinque truncatis, 4 = 2, minute guttulatis, hyalinis.

Hab. in ligno Piri Mali et Citri Aurantii, Padova et Selva Italiæ bor. — In forma Citri, teste Penz. in Mich. II. p. 451, conidia metiuntur 3-4 ≈ 2-2,5 et ex ipso apice basidiorum oriuntur.

6. Trullula Spartii Rabenh. in Kl. H. M. H. n. 752, Cesatia Spartii 3827

Rabenh. Kl. H. M. n. 1443. — Acervulis tenuissime membranaceis, entophleodeis; basidiis filiformibus, simplicibus; conidiis oblongis vel cylindraceis utrinque truncatis; obtusangulis, simplicibus, hyalinis, levibus.

Hab. in ramis Spartii in agro dresdensi Germaniæ.

7. Trullula turbinata (B. et C.) Sacc. Cesatia turbinata B. et C. 33 28 North Amer. Fungi n. 505. — Acervulis minutissimis, turbinatis, basi angustioribus, apice convexis, epidermide dein rupta cinctis; basidiis fasciculatis; conidiis moniliformiter concatenatis (ut in T. Spartii).

Hab. in ramis Kerriæ japonicæ in Carolina inferiore.

Trullula convexula (C. et E.) Sacc. Myxormia convexula C. et Ellis 3829
in Grevillea. — Erum_Pens, atro-brunnea; acervulis orbicularibus
convexis, intus olivaceis; conidiis concatenatis, minimis, ellipticis,
hyalinis, 7 ≈ 4.

Hab. in ramulis junioribus Robiniæ, New Jersey Amer. bor.

- 9. Trullula? conica Preuss F. Hoyersw. n. 304 (Hormococcus). 3830 Acervulis subconicis, atris, corneis, papillatis; nucleo albo; basidiis vel floccis longis, in conidia obovata continua secedentibus, albis. Hab. ad ligna putrescentia, Hoyerswerda.
- 10. Trullula heterospora Preuss F. Hoyersw. n. 50 (Hormococcus). 3831
 Acervalis corneis, folio insertis, apice perforatis, fusco-atris; pulpa sporulosa per ostiolum in cirrum expulsa; basidiis vel floccis longis, in conidia cylindrica, continua secedentibus, albis.

Hab. in foliis Visci, Hoyerswerda.

III. Hormococcus Preuss p. p. Basidia ramosa: conidia hyalina,

- 11. Trullula Populi Preuss F. Hoversw. n. 48 (Hormococcus). A- 3832, cervulis ovatis, seu elongatis, corneis, atris, glabris, subnitentibus, stromati insidentibus; nucleo albo, gelatinoso; basidiis vel floccis longis ramosis; conidiis cylindricis, albis, minimis, numerosissimis.

 Mab. in cortice Populi, Hoverswerda.
- 12. Trullula Rosæ Preuss F. Hoyersw. n. 49 (Hormococcus). A- 3833 cervulis tenuibus, atris, in cortice gregarie insidentibus; nucleo albo, subgelatinoso; basidiis vei floccis longis, ramosis; conidiis cylindricis, albis, minimis, numerosissimis.

Hab. in cortice Rosæ, Hoyerswerda.

13. Trullula papillata Preuss F. Hoyersw. n. 305 (Hormococcus). — 3834 Acervulis ovatis corneis, atris, subcylindrico-papillatis; nucleo ro-



Melanconieæ, Hyalosporæ, Bloxamia.

734

seo, gelatinoso; floccis conidiorum repetito-ramosis; conidiis cylindricis, albis, cum plurimis guttulis oleosis.

Hab. in caulibus herbarum majorum, Hoyerswerda.

IV. Species dubice.

14. Trullula Leguminum Ces. Bot. Zeit. 1852, pag. 287. — Acervu- 3835 lis..... conidiis obscure biseptatis.

Hab. in leguminibus prope Vercelli Italiæ borealis.

15. Trullula Oreoselini Ces. Bot. Zeit. 1852, p. 287. — Acervulis..... 3836 conidiis moniliformiter concatenatis. Totus caulis primitus pustulis farinaceis obtectus, quarum centrum serius perforatur.

Hab. in caule Oreoselini prope Vercelli Italiæ borealis.

- MYXORMIA B. et Br. Ann. N. H. n. 447 (Etym. myxa mucus, et hormos catena). Acervuli hyphis dense compactis marginati, erumpenti-superficiales, disciformi-scutellati. Conidia tereti-oblonga, per isthmos seu filamenta brevia invicem connexo-catenulata. Basidia bacillaria, septulata. Habitus hinc Myrothecii illine Excipulæ sed conidia catenulata.
- 1. Myxormia atro-viridis B. et Br. Ann. N. H. n. 447, t. XII. f. 9, 3837 Bon. Abhaudl. II. p. 97. Acervulis subscutellatis, erumpenti-superficialibus, sparsis, minutis, levibus, hyphis elongatis dense compactis ambientibus; basidiis filiformibus septulatis; conidiis teretioblongis, per isthmos tenues catenulato-connexis, sapius 2-guttulatis, muco obductis, subolivaceis.

Hab. in foliis emortuis graminum in Britannia et in sarmentis corticatis Rubi in Alabama Amer. bor, — Catenulæ conidiorum subinde duæ ex uno basidio.

2. Myxormia hypospila Cooke in Grevill. XII. p. 28. — Hypophylla 3838 Hypospilam simulans; acervulis ellipticis, cinereis, stellato- v. dentato-apertis, cupuliformibus, disco nigro; conidiis concatenatis, ovalibus, hyalinis, 5 ≈ 3.

Hab. in foliis Diospyri virginianæ in Amer. sept. — «An Trullulæ affinior?».

BLOXAMIA B. et Br. Ann. N. H. 1854, p. 468, t. XVI, f. 17 (Etym. a cl. A. Bloxam, botanico anglo). — Acervuli minuti, subsuperficiales, truncati, basi firmiores, atri, apice delicati, albi et fere evanidi, hinc subexcipuliformes. Conidia subcuboidea, catenulata, intra

basidia generata. Basidia dense fasciculata, bacillaria. — Trullulæ præsertim T. nilidulæ affine genus videtur.

1. Bloxamia truncata B. et Br. Ann, N. H. 1854, p. 468, t. XVI. 3839 f. 17. - Acervulis punctiformibus, sæpius leniter elongatis, depressis, parietibus verticalibus, infra persistentibus, supra albis, delicatis, subevanidis; conidiis cuboideis, 3,2 = 2,5, catenulatis; basidiis bacillaribus dense fasciculatis.

Hab. in ramis emortuis Ulmi, Batheaston Britanniæ.

COLLETOTRICHUM Corda in Sturm Cr. Fl. III. 3, p. 41 (Etym. colletos glutinatus, et thrix capillus). - Acervuli innato-erumpentes, planiusculi, disciformes vel elongati, atri, setulis longis nigricantibus cincti. Conidia tereti-fusoidea, continua, hyalina, basidiis brevibus fasciculatis suffulta. — Hinc Vermicularia, illinc Chatostromati affine genus.

1. Colletotrichum gleosporioides Penz. in Mich. II. p. 450 (Vermi- 3840) cularia) et F. Agrum. II. p. 6. - Acervulis sparsis vel laxe gregariis, subepidermicis, demum erumpentibus, depressis, atris, setulis cylindricis, apice rotundato, acervuli margine insitis, continuis vel pauciseptatis, 40-90 ≈ 5-6, atro-fuligineis; basidiis intra setulas dense fasciculatis, cylindricis, apice rotundatis, basi dilute fuligineis, continuis, 18-25 = 4-5; conidiis acrogenis, cylindricis, rectis, utrinque rotundatis, hyalinis, plasmate granuloso farctis, $16-18 \approx 4-6$.

Hab. in utraque pagina foliorum Citri, rarius in ramulis languidis, frequentissima, Padova, Stra, Cattajo (O. Penzio), Messina (Borzi), S. Terenzo, Bologna (Gibelli). — Ob defectum perithecii genuini aptius huc, quam ad Vermiculariam, spectat.

2. Colletotrichum exiguum Penz. et Sacc. F. Mont. Gen. n. 133. — 3841 Acervulis sparsis, in maculis nigris foliorum vivorum insidentibus, hypodermicis, demum erumpentibus setulis in acervulorum margine numerosis, atro-fuligineis, continuis ex cylindraceo conicis, 45-50 ≈3.5-4; conidiis cylindraceis, rectis, utrinque rotundatis, eguttulatis, hyalinis, 10-12 = 3,5-4; basidiis brevibus continuis, simplicibus hyalinis.

Hab. in foliis vivis Spirææ Arunci in Monte Generoso (O. Penzig).

3. Colletotrichum erumpens Sacc. Mich. II. p. 98 (Vermicularia). — 3842 Peritheciis spuriis gregariis innatis, dein epidermide lacerata erumpentibus, globoso-depressis, 1/4 mill. diam., setulis filiformi-cuspi-

ditatis, $150 \approx 4$, septulatis, atro-fuligineis parce vestitis; conidiis fusoideis curvulis, $25 \approx 5$, utrinque acutiusculis, nubilosis, hyalinis basidiis conicis, $15 \approx 6$, fuscidulis suffultis.

Hab. in caulibus emortuis Rusci aculeati pr. Rouen Galliæ (Letendre). — Perithecium genuinum desideratur, cum tantum adsit stratus proliger parenchymaticus ater, circulo setarum circumdatus; hinc propius Colletotricho quam Vermicularia.

4. Colletotrichum Volutella Sacc. et Malbr. Mich. II. p. 643. — Acer- 3843 vulis innato-erumpentibus, plano-convexiusculis, oblongis, 1½ mill. longis, ³/4 mill. latis, disco griseo, setulis cuspidatis, 300 ≈ 5-6, fuligineis, rectis, septatis, basi incrassatis cincto; conidiis cylindraceo-fusoideis, 14-18 ≈ 2,5-3,5, curvulis, 2-4 guttatis, hyalinis; basidiis obsoletis.

Hab. in caule emortuo Ulmariæ, Parc de Quevilly Galliæ.
Conidia subinde appendicula (basidio?) brevissima, labili aucta.

5. Colletotrichum Lineola Corda in Sturm D. Kr. Fl. III. 3, p. 41, 3844 tab. 21, Sacc. Mich. p. 271. — Setis nunc seriatis, nunc in pseudo-conceptaculum congregatis, cuspidatis, $60 \approx 3$, fuligineis, sursum pallidioribus; conidiis fusoideis, arcuatis, $25-28 \approx 3,5-4$, utrinque, præcipue apice, acutis, 3-nucleatis, hyalinis, ad basim setulorum, basidiis brevissimis suffultis, nascentibus.

Hab. in foliis Andropogonis Grylli, Padova Italia bor., et in caulibus Umbelliferarum prope Pragam Bohemia. — Videretur status infans, perithecio carens, Vermicularia.

6. Colletotrichum? aureum Corda Icon. I. p. 17, t. IV. f. 231. — 3845 Acervulis minutis, aureis; setulis simplicibus, erectis, septatis, 7-8 μ. latis, supra incrassatis, aureis, diaphanis; conidiis minutis oblongis concoloribus, muco pallido immersis, 3 μ. d.

Hab. in Sphæriaceis et Scleromycetibus variis prope Reichenberg Bohemiæ. — «Vix hujus generis».

7. Colletotrichum microspermum Corda Ic. F. IV. p. 28, t. VI. f. 85. 3846 — Acervulis late effusis, tenuissimis, fuscis, subpruinosis; setulis simplicibus, 180 μ. longis, erectis, septatis, pallide-fuscis, supra albis; conidiis in cirros gelatinosos glaucos irregulariter conglobatis subovoideis, minutissimis intus nucleolo solitario vesiculæformi, extus strato crassiusculo gelatinoso albo-cincto, ornatis, 3-3, 5 μ. longis.

Hab. in ligno Coniferaram Reichenberg Bohemiæ. — «Vix hujus loci».

- PESTALOZZIELLA Sacc. et Ellis Mich. II. p. 575 (Etym. a Pestalozzia cui affine genus). Acervuli subcutanei, perithcio carentes. Conidia oblonga, continua, subhyalina, apice setulis hyalinis aucta. A Pestalozzia, cui analogum genus, differt conidiis continuis, subhyalinis.
- 1. Pestalozziella subsessilis Sacc. et Ellis Mich. II. p. 375. Ma- 3847 culis minutis subcircularibus, amphigenis expallentibus, fusco-marginatis; acervulis punctiformibus epidermide velatis, pallidis; conidiis oblongis, utrinque obtusiusculis, 20-22 6,5-7, continuis, 3-guttatis, subhyalinis, apice seta filiformi, a basi 4-5-ramosa, 25 = 1 auctis, basi stipite brevissimo setaceo suffultis.

Hab. in foliis subvivis Geranii caroliniani, Newfield, N. J. Amer. bor. (Ellis). — Cl. Ellis per tres annos speciem observavit conidiaque semper continua reperit. — Habitu affinis Robillardæ depazeoidi Sacc. (Willk. et Curr.) et R. sessili Sacc.

- CYLINDROSPORIUM Ung. Exanth. p. 166, em. Sacc. Mich. II. p. 12, non Grev. (Etym. cylindricus et spora). Acervuli vel nuclei subepidermici albi vel pallidi, disciformes vel subeffusi. Conidia filiformia continua, hyalina, sæpius flexuosa. Est, meo sensu, Glæosporium conidiis filiformibus et ut Entylomatis status conidiophorus pro certo habetur.
- 1. Cylindrosporium Ficariæ Berk. in Grevillea, Glæssporium Fica- 3848 riæ (Berk.) Cooke Handb. n. 1413.— Acervulis variis, epidermide velatis, applanatis; conidiis bacillaribus, curvulis, utrinque acutiusculis, flexuosis, 25-35 \times 2\frac{1}{2}, pluriguttulatis; hyalinis.

Hab. in foliis Ficariæ ranunculoidis vivis in Britannia et Gallia.

- 2. Cylindrosporium niveum B. et Br. Ann. H. n. 1459. Maculis 3849 numerosis, crebris, 2-4 mill. latis, sæpe confluentibus, brunneo-marginatis; conidiis candidis, oblongis, 1-septatis, 50 p. longis, breviter pedicellatis.
 - Hab. in foliis Calthæ palustris, New Pitsligo Britanniæ.
- 3. Cylindrosporium Ranunculi (Bon.) Sacc. Mich. p. 540, Fusidium Ra-3850 nunculi Bon. Handb. t. I. f. 7. Acervulis initio subcutaneis more Glæosporii; conidiis demum protrusis, fili-fusiformībus, 80 ≈ 2, subflexuosis, granulosis, hyalinis; intermixtis aliis crassis et brevius fusoideis, 18-20 ≈ 2,5-3, quandoque curvulis nubilosis, hyalinis; basidiis filiformībus apice obtusiusculis, hyalinis. Cfr. F. it. t. 1088.

Melanconieæ, Scoleco-allantosporæ, Cylindrosporium.

738

Hab. in foliis Ranunculi acris et bulbosi, Padova in Ital. bor. — A. Calthæ. In foliis Calthæ palustris, Saintes Galliæ.

4. Cylindrosporium Glycyrrhizæ Harkn. F. Calif. p. 12. — Hypo- 3851 phyllum, paginam fere totam occupans, cirrose exsiliens; conidiis cylindricis, utrinque acutis, pluriguttulatis, 40-70 ≈ 4-5.

Hab. in foliis vivis Glycyrrhizæ, Sunol Californiæ.

5. Cylindrosporium Phaseoli Rabenh. in Kl. Herb. Myc. II. n. 327 3852 (Cylindrospora).

Hab. in foliis Phaseolorum prope Dresden Germaniæ (Diagnosis desideratur).

6. Cylindrosporium microspermum (Speg.) Sacc. Mich. II. p. 169, Fu- 3853 sidium microspermum Speg. Dec. Myc. p. 120. — Hypophyllum; maculis circularibus indeterminatis, amphigenis-flavo-pallidis; acervulis epidermide tumidula velatis; conidiis bacillari-fusoideis, utrinque acutis, $6-12 \approx \frac{3}{4}$, hyalinis, quandoque leniter curvis, denique emergenti-superficialibus.

Hab. ad folia viva vel languida Saxifragæ rotundifoliæ in silva Cansiglio Italiæ bor. (Spegazzini).

7. Cylindrosporium Padi Karst. Symb. Myc. Fenn. XV. p. 159. — 3854 Hypophyllum; maculis angulatis, subfuscis, amphigenis; acervulis epidermide tumidula velatis; conidiis filiformibus, flexuosis, denique emergenti-superficialibus, hyalinis, 48-62 ≥ 2.

Hab. ad folia viva vel languida Pruni Padi, Mustiala Fenniæ.

8. Cylindrosporium Gei Farlow, Fl. With. Mount. p. 250. — Maculis 3855 minutis, distincte limitatis; acervulis amphigenis minutis albis e massa densa subparenchymatica hypharum simplicium vel ramosarum constantibus et ex ostiolo stromatum erumpentibus, 75-115 ≈ 3, in conidia filiformia, recta v flexa 38-110 μ. lg. desinentibus.

Hab. in foliis Gei radiati var. Peckii, Lake of the Clouds, White Mountains Amer. bor.

9. Cylindrosporium Filipendulæ Thum, Symb. Myc. austr. p. 146. — 3856 Acervulis hypophyllis, divergentibus, tenuissimis, pallidissime ochraceis, sine maculis; conidiis cylindraceis, longis, curvatis, utrinque acutatis, æqualibus, obscure bi-quinque-septatis, nucleatis, 30-35 ≈ 2-3.

Hab. in foliis vivis Spirææ Filipendulæ, Klosterneuburg Austr. infer.

10. Cylindrosporium Myosotidis Sacc. Mich. I. p. 533. — Acervulis 3857 epidermide velatis, applanatis, variis, ex albo luteolis; conidiis filiformibus, curvulis, 50-55 ≈ 1¹/2, pluriguttulatis, hyalinis.

Hab. in pag. infer. foliorum Myosotidis palustris, Symphyti et Borraginis pr. Rouen Galliæ (Letendre). — In forma Symphyti et Borraginis: conidia sunt filiformia, $40-50 \approx 1^{1}/_{2}-1^{2}/_{3}$, subflexuosa, hyalina. — Hæ formæ sub nominibus variis Cylindrosporæ vel Septoriæ etc. occurrunt apud auctores, sed incertissime limitatæ.

11. Cylindrosporium Scrophulariæ Sacc. et Ellis Mich. II. p. 575. — 3858 Maculis minutis albis, late fusco-marginatis; acervulis exiguis, subepidermicis; conidiis filiformibus, curvis, 30-40 = 1,5-2, 3-guttulalatis, hyalinis, e mycelio vage ramoso filiformi oriundis.

Hab. in foliis Scrophulariæ nodosæ in Pensylvania (Doct. G. Martin).

12. Cylindrosporium? australe Speg. F. Arg. Pug. III. n. 137. — 3859 Acervulis subepidermicis, pallidis; conidiis filiformibus, rectis vel flexuosis, utrinque subattenuatis, 80-90 = 2-3, hyalinis, granulosofarctis, fasciculato-penicillatim e stromatibus exeuntibus.

Hab. in maculis Entylomatis australis ad folia viva Physalidis hirsutæ in herbosis de la Boca del Riachuelo Argentinæ. — Certe Entylomatis australis status macroconidicus.

13. Cylindrosporium rhabdosporum B. et Br. Ann. N. H. n. 1458. — 3860 Maculis orbicularibus, brunneis, amphigenis; conidiis fasciculos minutos radiatos formantibus, oblongis, leniter nodulosis, obtusis, 3-septatis, 20-50 μ. longis, subinde altero in altero superimposito.

Hab. in foliis Plantaginis, Glamis Britanniæ (J. Stevenson).

14. Cylindrosporium pulveraceum Speg. F. Arg. Pug. II. p. 39, n. 152 3861 (sub nom. Fusidii pulveracei). — Maculis nullis; acervulis hypophyllis, nubiloso-pulverulentis, candidis, indeterminatis, 1-3 mill. diam.; conidiis cylindraceis vel rarius cylindraceo-fusoideis, utrinque acutiuscule rotundatis, continuis vel-medio uniseptatis, 10-20 $\approx 2,5-3$, hyalinis, granuloso-farctis.

Hab, ad folia viva Polygoni acuminati in paludosis secus Rio de la Plata.

15. Cylindrosporium pulchrum Speg. F. Arg. Pug. IV. n. 312. — A- 3862 cervulis minutissimis, 70-80 μ. d., primo subepidermicis, dein erumpenti-liberis, candidis, dense gregariis, hypophyllis; conidiis cylindraceis, utrinque obtusiuscule rotundatis, rectis vel vix curvulis, minutis, 10-30 ≈ 2-2,5, hyalinis.

Hab. in foliis vivis Rumicis pulchri in uliginosis herbosis, Recoleta Argentinæ.

16. Cylindrosporium Colchici Sacc. Miscell. Myc. F. Gall. n. 2266. 3863



an Septoria Colchici Pass.? — Acervulis parenchymate immersis, punctiformibus, sæpius concentrice dispositis, 80--100~p. diam., perithecio destitutis; conidiis bacillari-fusoideis hyalinis, $26\text{--}30 \approx 2\text{--}2.5$, curvulis, subinde spurie 1--3--septatis (interdum multo brevioribus, $10\text{--}12 \approx 3$ rectiusculis); basidiis bacillaribus varie ramosis, hyalinis.

Hab. in foliorum partibus arescendo ochraceis Colchici officinalis, Rouen Gallie (Letendre).

17. Cylindrosporium veratrinum Sacc. et Winter Hedwig. 1883, p. 14. 3864 — Acervulis minutis, innatis, seriatis, irregularibus, hyphis filiformibus, ramulosis hinc inde exserentibus conidia bacillaria, curvula, utrinque rotundata, 75-90 ≈ 3,5-4,5, bi-triseptata, non constricta, hyalina, dein in grumulos candidos expulsa.

Hab. ad folia viva Veratri albi, Rigi prope Luzern Helve-

tiæ (G. WINTER).

18. Cylindrosporium Alismacearum Sacc. Mich. II. p. 121. — Acer-3865 vulis punctiformibus, subcutaneis, dein suberumpentibus; conidiis bacillaribus, subcurvis, 30 ≈ 1½-2, pluriguttulatis, utrinque obtusiusculis et e mycelio filiformi, vage ramuloso oriundis.

Hab. in foliis Alismatis Plantaginis, socio Entylomate Alismacearum, quocum metagenetice connexum est, prope Rouen Galliæ (LETENDRE).

CRYPTOSPORIUM Kunze Myk. Heft. I. 1, em. Corda in Sturm Fl. Kr. III. t. 49 (Etym. cryptos abditus et spora). — Acervuli vel nuclei figurati, discoideo-conici, peridermio tecti, centro dein erumpentes, subinde pseudo-perithecio e matrice formata inclusi, sæpius saprophyti; conidia fusoideo-falcata, majuscula, continua, hyalina, typice stipitata. — Species aliquot Cryptosporæ spermogonia sistunt.

I. Species ramicolæ.

Cryptosporium Neesii Corda in Sturm Kr. Fl. III. p. 109, t. 51, 3866
 Sacc. F. ital. t. 1095, Crypt. vulgare Fr. Syst. Myc. III. p. 482.
 — Acervulis subcutaneis, suberumpentibus, conico-discoideis, atro-olivaceis; conidiis fusiformibus vel cylindraceo-fusiformibus, curvatis, granulosis, subhyalinis, 50 ≈ 5-6, basidiis brevissimis suffultis.

Hal. in ramis emortuis Alni glutinosæ et A. incanæ in Germania, Bohemia, Italia, Gallia, Suecia. — Status conidicus Cryptosporæ suffusæ. — β . betulinum Sacc. Mich. II. p. 169, F. ital. t. 1094: a typo conidiis paullo argustioribus, nempe $50 \approx 4-5$ dif-



fert; ceterum vix diversum. In ramis corticatis Betulæ albæ, l'adova Ital. bor. — Absque dubio status conidiophorus Cryptosporæ betulinæ Tul.

2. Cryptosporium Eucalypti Cooke et Harkn. Grev. 1881, p. 84. — 3867 Sparsum, punctiforme, epidermide tectum; conidiis fusoideis, abrupte curvulis, hyalinis, 20 \(\approx 3.5\).

Hab. in ramulis Eucalypti Globuli in California.

3. Cryptosporium ferrugineum Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3868 — Acervulis rotundis, minimis, lentiformibus, mycelio ferrugineo tectis, pustulis convexis, e quibus acervulus poro pertusus, disci ad instar, erumpit; conidiis fusiformibus, utrinque acutis, diaphanis.

Hab. in ramis siccis Mori in Guestphalia.

 Cryptosporium Nyssæ C. et Ellis in Grevillea. — Erumpens; pu- 3869 stulis tectis, demum epidermide laceratis, atris; conidiis lanceolatis, hyalinis, nucleatis, rectis, 20-22 ≈ 5.

Hab. in ramis Nyssæ, New Jersey Amer. bor. — Cryptosporio coronato Fuck. peraffine.

5. Cryptosporium oxyspermum Schulz. et Sacc. Micr. Slav. n. 63, 3870 Schulz. Ill. Fung. Slav. n. 971. — Acervulis subcutaneo-erumpentibus, conico-obtusis, compactis, 1/2-1 mill. diam., atris, nucleo pallidiore; conidiis bacillari-fusoideis hic acutis, hinc obtusiusculis, curvulis, 43-61 = 3; basidiis obsoletis.

Hab. in ramis corticatis Juglandis regime prope Vinkovce Slavonime.

6. Cryptosporium opegraphoides Malbr. et Sacc. Mich. II. p. 120, F. 3871 ital. tab. 1093. — Acervulis sparsis, plano-pulvinatis, tectis dein erumpentibus, ambitu angulosis, ½ mill. diam., nigris; conidiis cylindraceo-bacillaribus, curvis, utrinque rotundatis, 40-45 \pm 3\frac{1}{2}, nubilosis, hyalinis, basidiis teretibus dimidio brevioribus suffultis.

Hab. in ramulis corticatis Fagi silvaticæ, Brionne Galliæ (Malbranche).

7. Cryptosporium amygdalinum Sacc. Cryptosporellæ aureæ stat. 3872 conidicus Sacc. Syll. I. pag. 466. — Pustulis minutis, siccis, demum epidermidem lacerantibus, intus niveis, simplicibus; conidiis oblongo-lanceolatis, continuis, inequilateralibus, granulosis, hyalinis, $22 \approx 8$.

Hab. in ramis corticatis Carpini Betuli in Germania, Gallia, Britannia et Italia. — Sec. Fuck. in acervulis primitus adsunt conidia minutissima cylindracea.

8. Cryptosporium conicum Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3873



- Effusum, sparsum; acervulis rotundis, depressis, pallidis, intus griseis, disco rotundo, plano et ostiolo papillato, epidermide fissa arcte inclusis, erumpentibus; pustulis conicis; conidiis oblongo-fusiformibus, utrinque acutiusculis, primum guttulis globosis, seriatis notatis, hvalinis.

Hab. in ramis quercinis in Guestphalia.

9. Cryptosporium maculans Corda Icon. I. p. 2, f. 31. — Acervulis 3874 epidermide plicata tectis, maculæ pallidæ, luridæ insidentibus, atris: conidiis minutissimis, acuminatis, albis, diaphanis.

Hab. in ramulis emortuis Salicum rarissime in Bohemia.

10. Cryptosporium hysterioides Corda Icon. I. p. 2. tab. I. fig. 30, 3875 Acervulis oblongis erumpentibus, atris; conidiis oblongis, minutis, albis, 6,2-6,8 a. lg. (subinde, teste Fuck., spurie 1-septatis); stromate maculaque nulla.

Hab. in ramulis emortuis Salicis prope Pragam in Bohemia,

et Salicis viminalis in Rhenogovia.

11. Cryptosporium coronatum Fuck. Cfr. Syll. I. p. 408. — Acer. 3876 vulis planis, magnis, griseis, tectis, dein erumpentibus, basi anulo floccoso-radiato, albo circumdatis; conidiis oblongo-fusiformibus, utrinque obtusiusculis, simplicibus, hyalinis, in basidiorum simplicium apicibus.

Hab. in ramis corticatis Populi pyramidalis in Germania, Belgio et Gallia. - Sistit statum conidicum Cryptosporella populince.

12. Cryptosporium Populi Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3877 - Acervulis planis, griseis, mycelio tenuissimo, radiante coronatis, epidermide tectis; pustulis convexis, 1/2 mill. latis, poro fisso apertis; conidiis albis, claris, oblongo-fusiformibus, obtusiusculis.

Hab. in ramis Populorum in Bohemia.

13. Cryptosporium noveboracense B. et C. North Amer. Fungi n. 395. 3878 - Pustulis (peritheciis?) deplanatis fuscis; conidiis lunatis, 25 μ. longis; basidiis vix 12 u. longis.

Hab. in cortice Abietis in montanis New York et Markham Station in America boreali.

14. Cryptosporium hypodermium Auersw. in M. Willk. Sertum Fl. 3879 Hisp. p. 170. — Acervulis demum ore pertusis sub epidermide secedente nidulantibus; conidiis fixis, subfusiformibus, lunatis, utrinque obtusiusculis, hyalinis, guttulatis.

Hab. in ramis tenellis emortuis Solani Dulcamaræ in Aragonia pr. Jaca. — Format maculas parvas oblongas nigrescentes. 15. Cryptosporium Lupini Cooke in Grevill. — Sparsum, tectum, mi- 3880 nutum; conidiis lunatis, utrinque acutis, continuis, hyalinis, 30 = 4.

Hab. in caule Lupini in California.

II. Species foliicola.

16. Cryptosporium epiphyllum C. et Ellis in Grevillea. — Maculis 3881 orbicularibus, fuscis; pustulis 1-3, obscurioribus, convexis; conidiis fusoideis, lunatis, hyalinis, utrinque acutis, 30 μ. longis.

Hab. in foliis languidis Castaneæ, New Jersey Amer. bor.

- «Potius Phlaospora».

17. Cryptosporium nigrum Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3882 — Pustults minutis, nigris, in macula fusca, poro lato apertis; sacculis minutis, rotundis, planis, fuscis; conidiis suboblongis, fusiformibus, hyalinis et subcurvatis.

Hab. in foliis vivis Juglandis in Guestphalia.

18. Cryptosporium Mori Fuck. Symb. Myc. p. 352. — A Cryptosporio 3883 Ribis differt: conidiis oblongis, vix curvatis, utrinque obtusis.

Hab. in foliis putridis Mori albæ prope Hattenheim Rheno-

goviæ.

19. Cryptosporium punctiforme Cooke et Harkn. in Grevill. 1881, 3884 p. 84. — Epiphyllum, sparsum, exiguum, punctiforme, habitu Sphærellæ punctiformis; conidiis leniter curvulis, utrinque attenuatis, hyalinis, 80-90 \(\times 2.2.\)

Hab. in foliis Arbuti Menziesii in California.

20. Cryptosporium falcatum Cooke et Harkn. in Grev. 1881, p. 84. 3885 — Hypophyllum vel amphigenum, punctiforme, in plagas nebulosas aggregatum; sporophoris elongatis, falcatis; conidiis utrinque attenuatis, hyalinis, leniter curvulis, 20-23 ≥ 2, acro-pleurogenis.

Hab. in foliis Arctostaphyli in California.

21. Cryptosporium viride Bon. Abhandl. Geb. d. Mykol. II. p. 129. 3886 — Acervulis fusco-viridibus; conidiis longis, fusiformibus, utrinque obtusiusculis, pellucidis, subviridibus; pustulis convexis, rotundis, poro simplici apertis.

Hab. in foliis Piri Mali, Sorbi et Ægopodii in Guestphalia. — Sec. Hoffmann Ind. p. 43, species collidit cum Crypto-

sporio Sorbi Ces.

22. Cryptosporium Ribis Fuck. Symb. Myc. p. 111. — Acervulis..... 3887 conidiis in sporophori oblongi apice, fusiformibus, apice curvatis, hyalinis.



Hab. in foliis siccis dejectis Ribis alpini in Rhenogovia.

23. Cryptosporium circinans Welw. et Curr. Fungi Angol. p. 286. — 3888 Acervulis stipatis, subglobosis vel irregularibus in circulos concentricos dispositis; conidiis pallidis, subclavatis vel subfusiformibus leviter curvatis, longitudine variis, 15 a. longis.

Hab. frequens ad folia fruticis spinosissimi e Capparidea.

rum familia in dumetis prope Loanda Angolæ.

24. Cryptosporium Calami Niessl in Rabenh. Hedw. 1878, p. 167 et 3889 F. Eur. n. 2454. — In foliis Acori Calami, Calcutta Indiæ; in Rabenh. F. Eur. exempl. citato adest tantum Pestalozziæ species.

25. Cryptosporium imberbe Fr. Summa Veg. Scand. p. 423, Scler. 3890 Suec. n. 400bls (non vidi) conidiis ut in Leptothyrio acerino.

— In caulibus in Specia.

26. Cryptosporium deplanatum Fr. Summa Veg. Scand. p. 423, Scler. 3891 Suec. n. 406 conidiis pellucidis, curvulis, copiosissimis. — In caulibus in Suecia.

LIBERTELLA Desm. în Aun. Sc. nat. 1830, XIX. p. 277, emend. Sacc. Mich. II. p. 12. (Etym. a Dom. Anna Libert, meritissima cryptogamologa Arduennensi). — Acervuli seu nuclei difformes, diu epidermide velati, sæpe tandem in cirros varios læticolores erumpentes; conidia filiformi-falcata, longa, continua, hyalina, basidiis variis suffulta.

1. Libertella faginea Desm. Ann. Sc. nat. 1830, p. 276, t. 5, f. 5, 3892 Sacc. F. it. t. 1085, Namospora crocea Pers. (?), Fres. Beitr. t. IV. f. 35-39! (non Desm.). — Acervulis difformibus, sæpe confluentibus, subcutaneis, vix erumpentibus, flavo-aurantiacis; conidiis filiformifusoideis curvatis; 30-35 \(\approx 2, hyalinis. \)

Hab. in ramis corticatis Fagi silvaticæ in Gallia, Italia, Germania, Britannia. — Forma minor Sacc. Mich. II. p. 283: acervulis minoribus; conidiis 18-25 = 1. In ramulis tenuioribus fagineis in silva Cansiglio Ital. bor. — Næmospora crocea Desm. Ann. Sc. nat. 1830, t. VI. f. 3, conidiis globosis pollet et tunc My-xosporium spectat. Cfr. suo loco.

2. Libertella fusca Bon. Handb. d. Myk. p. 57, t. III. f. 70. — Acer- 3839 vulis majusculis, obtusis, flavo-fuscis, tectis; conidiis filiformi-fusoideis, in semicirculum arcuatis, denique erumpentibus; basidiis longis furcatis.

Hab. in cortice Fagi in Guestphalia. — «An status provectior Libertellæ fagineæ?».

3. Libertella Rosæ Desm. Ann. Sc. nat. 1830, p. 277, t. V. f. 6, Sacc. 3894 F. it. t. 1084, Næmospora Rosæ Fr. S. M. III. p. 479. — Acervulis difformibus, sæpe confluentibus, subcutaneis, amæne rubro-aurantiacis; conidiis arcuato-filiformibus, 10-14 = 1, basidiis teretibus subæquilongis suffultis, hyalinis.

Hab. in ramis languidis vel emortuis Rosarum (et Syringæ, teste Cooke) in Gallia, Germania, Italia, Britannia.

Libertella Loniceræ Cooke et Harkn. in Grevillea. — Sparsa, te-³⁸⁹⁵ cta, leviter bullata, demum pertusa; conidiis fusiformibus arcuatis, hyalinis, in cirros pallidos emergentibus, 20 ≈ 2,5.

Hab. in ramis Loniceræ in California.

5. Libertella hesperidica Speg. Fungi Argent. Pug. IV. n. 313. — 3896 Acervulis pulvinato-tumescentibus, sæpe subconicis, subepidermicis, diu tectis, dein epidermidem ostiolatim rumpentibus atque cirrum prælongum varie contortum, succineo-fulvum emittentibus; sporulis fusoideo-filiformibus, utrinque acutissimis, valide falcatis, continuis, hyalinis, 28-34 ≈ 0.7-1.

Hab. in ramis dejectis putrescentibus Citri Aurantii, Parque de Palermo, prope Buenos Ayres Argentinæ (C. Spegazzini).

6. Libertella betulina Desm. in Ann. Sc. nat. 1830, XIX. p. 276, t. 3897 VI. f. 4, Næmospora aurea Fr. Syst. Myc. III. p. 478. — Acervulis expansis celluloso-gyrosis, aureis; conidiis subrectis, fusiformibus aureis, utrinque acutis, quam in Libertella faginea paullo brevioribus.

Hab. in ramis siccis Betulæ albæ et B. verrucosæ in Gallia, Germania et America boreali.

Libertella acerina Westend. Cinquième Not. Hypox. ined. p. 29. 3898
 — Acervulis epidermide bullosa, brunneo-aurantiaca pallida, irregulariter fissa tectis; conidiis fili-fusiformibus, curvatis, 20-25 μ. longis, aurantiacis.

Hab. in cortice emortuo Aceris, Louvain in Belgio.

8. Libertella Taleola Sacc., Diaporthes (Chorostates) Taleolæ stat. 3899 conid. Tul. II. p. 168. — Acervulis suborbicularibus, planiusculis, castaneis, intus carnosulis et dilute roseolis, gregariis, sæpe linea atra definitis; conidiis cylindraceis, utrinque acutiusculis, 20-30 = 4, arcuatis, hyalinis.

Hab. in ramis corticatis quercinis in Gallia.

9. Libertella punicea Hoffm. in Rabenh. F. Eur. n. 861 (non vidi) et 3900 Hedw. 1865, p. 158. — Acervulis vel cirris amœne puniceis.....

Hab. in ramis Quercus americanæ in horto botan. Giessen.

10. Libertella alba (Lib.) Lamb. Fl. Myc. Belg. III. p. 183, Namo- 3901 spora alba Lib. Exs. n. 364, Libertella macrospora West. Cinquième Not. Hypox. ined. p. 29. - Acervulis tectis, bulbosis, fisso-erumpentibus, intus albido-carneis, extus fuscis; conidiis fusiformibus, curvis, utrinque obtusis, hyalinis, in cirrum album dein carneum tortuosum effusis, $40-60 \approx 5$.

Hab. in ramis emortuis Alni glutinosæ in Belgio. — «An

potius Cryptosporium Neesii?».

11. Libertella pallida Fuck. Symb. Myc. p. 398. — Gregaria; cirris 3902 tenuissimis, flexuosis, pallidis; conidiis cylindraceis, brevibus, subrectis, aliis longissimis commixtis.

Hab. in cortice Salicum, rarius pr. Æstrich in Rhenogovia. 12. Libertella Bonordenii Sacc. Lib. alba Bon. Abhandl. Geb. Mycol. 3903 II. p. 126, non Lib. - Acervulis longis irregularibus candidis, demum flavescentibus, planis, papillis conicis erumpentibus; conidiis cylindricis, longis, subrectis, utrinque obtusiusculis, hyalinis.

Hab. in ramis dejectis Fagi in Guestphalia.

13. Libertella hamata Bon. Abhandl. Geb. Mykol. II. p. 126. - Pu- 3904 stulis parvis, rotundis, conicis, apice laciniato-dehiscentibus, demum late apertis; acervulis ostiolo simplici erumpentibus et stromate conico suffultis; conidiis cylindricis hamatis, quam in Libertella Rosæ paullo brevioribus; basidiis simplicibus.

Hab. in ramis siccis in Guestphalia.

14. Libertella lignifraga Mont. Cent. VI. n. 96bis, in Ann., 1849, 3, 3905 XII. p. 317, Syll. Crypt. n. 1028. — Seriata; nucleo hemisphæ. rico ob confluentiam lineari; conidiis cylindricis hyalinis curvatis utrinque obtusis, cirrose rejectis, cirris tæniatis albis.

Hab. in ligno denudato erumpens prope Sedan in Arduennis.

NÆMOSPORA Pers. Syn. Fung. 110. em. Sacc. Mich. II. p. 12. (Etym. nama fluxio et spora). - Acervuli seu nuclei difformes, peridermio diu velati, læticolores, subgelatinosi. Conidia botuliformia, breviuscula, continua, hyalina, tandem sæpe in cirros exsilientia. Basidia bacillaria varia sæpe ramosa.

 Næmospora croceola Sacc. Mich. II. p. 120, F. it. t. 1086. — Acer- 3906 vulis subcutaneis, pulvinatis, 2-3 mill. d., amœne aurantiacis, intus plurinucleatis (sed perithecio carentibus); conidiis botuliformibus, minutis, $5-6 \approx \frac{3}{4}-1$, basidiis bis verticillato-ramulosis, acicularibus suffultis, in cirros gelatinosos varios succineos exsilientibus.

Hab: in ramis corticatis Castaneæ vescæ, Quercus, Fa-

- gi, Fraxini prope Toulouse, Rouen, etc. Galliæ. Basidia in forma Quercus $20-25 \approx 1$, in forma Fraxini $15 \approx 3$; conidia in utraque $4-5 \approx 3/4-1$.
- 2. Næmospora populina Pers. Syn. F. p. 109, Valsæ populinæ stat. 3907 conid. Sacc. Syll. I. p. 131. Stromate nigrescente, subcutaneo, conico-applanato; cirris flavis; conidis cylindraceis, curvatis, 8 = 11/a.

Hab. in ramis exsiccatis Populi nigræ in Germania et Italia.

3. Næmospora citrinula Speg. F. Arg. Pug. IV. n. 314. — Nucleis 3908 densiuscule gregariis, subepidermicis, late gregariis, minutis, hinc inde per corticem erumpentibus et in cirrum longissimum undulato-circinatum, succineo-citrinum productis; conidiis ellipticis vel elliptico-cylindraceis, rectis vel inæquilateralibus, numquam curvulis, utrinque obtusiusculis, majuscule 2-guttulatis vel granuloso-farctis, 10-13 = 2,5, hyalinis.

Hab. in ramis dejectis putrescentibus Salicis Humboldtiane in uliginosis, Boca del Riachuelo Argentinæ.

4. Næmospora Corchori (Kalchbr.) Sacc. Psecadia Corchori Kalchbr. 3909 Szeps. Gomb. p. 267. — Acervulis minutis lobatis, epidermide parum elevata tectis; conidiis minutis cytisporoideis (h. e. allantoideis).

Hab. in ramulis corticatis Kerriæ japonicæ in Hungaria.

5. Næmospora microspora Desm. Ann. Sc. nat. 1830, tab. VI. fig. 1, 3910 Diatrype Stigmatis st. conid. Sacc. Syll. I. p. 193. — Acervulis suborbicularibus, plerumque confluentibus lateque extensis, reticulatim exaratis, læte auratis, deinde ex cinereo nigrescentibus; conidiis cylindraceis, curvulis, 4-5 = 1.5, basidiis filiformibus, 24-28 = 1.5 suffultis, denique in cirros subaurantios eructatis.

Hab. in ramis corticatis Fagi, Carpini, Castaneæ, Quercus in Germania, Gallia, Italia. — Conidia ex Desm. minuta ovoidea; an eadem species?

6. Namospora decipiens B. et R. North Amer. Fungi n. 4:5. — A-3911 cervulis sub cortice abditis; conidiis brevibus cylindraceis, curvulis, flavidis; basidiis conidio paullo longioribus.

Hab. in corticibus, quorum superficies conidiis conspersa est, in Carolina inf. Amer. bor.

7. Næmospora erythræa B. et C. North Amer. Fungi n. 500. — A- 3912 cervulis depressis, epidermide tenui tectis, gregariis, intus cellulis globosis præditis; conidiis breve oblongis, minutissimis.

· Hab. in ramis Rosarum in America boreali.

8. Næmospora crocea (Bon.) Sacc. Libertella crocea Bon. Handb. 3913

p. 57, t. III, f. 63, nec Auctorum, Libertella aurea Fr. sec. Bon. Abh. II. p. 127. — Acervulis laxe gregariis, subcutaneis, convexulis, croceis, dein stellatim erumpentibus; conidiis allantoideis, breviusculis curvulis; basidiis fasciculatis duplo longioribus suffultis. Hab. in ramis corticatis Cratægi in Guestphalia.

9. Næmospora nigrificans (Bon.) Sacc. Libertella nigrificans Bon. 3914 Handb. d. Myk. p. 57, t. III. f. 63 d. — Acervulis pallide flavis peridermium nigrificantibus et bullatim leniter inflantibus, clausis; conidiis cylindraceis rectiusculis, brevibus utrinque rotundatis, in cirrum luteum expulsis.

Hab. in sarmentis Ruborum et Rosarum silvestrium in Guestphalia.

10. Næmospora plumbea (Bon.) Sacc. Libertella plumbea Bon. Ab- 3915 handl. Geb. d. Myk. II. p. 127. — Acervulis lentiformibus, fuscis; pustulis convexis, plumbeis; conidiis cylindricis, curvatis, minimis, hyalinis, brevibus.

Hab. in ramis Cratægi in Guestphalia.

11. Næmospora tenuissima (Bon.) Sacc. Libertella tenuissima Bon. 3916 Abhand. Geb. d. Myk. II. p. 126. — Acervulis planis, oblongis, hyalinis, dilute flavis, demum fuscescentibus; conidiis linearibus, sublongis, rectis, tenuissimis, hyalinis; ostiolo papilliformi, nigro-fusco.

Hab. in ramis siccis Coryli in Guestphalia.

Næmospora Westendorpii Sacc. Libertella microspora Westend. 2917
 Not. Hypoxyl. ined. p. 30, nec Desm. — Acervulis bullatis, epidermide irregulariter fissa tectis, aurantiaco-rubris; conidiis minutis, filiformibus, plus minusve recurvatis, 10 μ. longis.

Hab. in ramis quercinis in Belgio.

13. Næmospora flava (Bon.) Sacc. Libertella flava Bon. Abhandl. 3918 Geb. d. Myk. II. p. 127. — Acervulis rotundis, irregularibus, flavis; pustulis planis, flavidis; conidiis brevibus, minimis, cylindricis, curvatis, albis.

Hab. in ramis Quercus in Guestphalia.

14. Næmospora rufa B. et C. North Amer. Fungi n. 494. — Acer- 3919 vulis irregularibus, applanatis, intus cellulosis; conidiis minutissimis globulosis motu Browniano præditis.

Hab. in ramis Magnoliæ in Amer. bor. — «Si conidia globulosa, species in genere anceps».

15. Næmospora pruinosa B. et C. North Amer. Fungi n. 493 — Pu- 3920

stulis gregariis pruinosis, intus cellulosis; sporulis minutissimis, subellipsoideis.

Hab. in Echinocactis, Massachussets Amer. bor. (Murray).
16. Næmospora lateritia Fres. Beitr. p. 33. — Acervulis brunneis, 3921 subglobosis, subcutaneis, epidermidem poro atro perforantibus; conidiis oblongis vel breve bacillaribus, 6-7 μ. longis, rectis, in cirros carneos vel lateritios exsilientibus; basidiis brevibus simplicibus vel furcatis.

Hab. in epicarpio Cucurbitæ putrescenti in Germania. — «An vera Næmospora?».

17. Næmospora fusisperma Preuss F. Hoyersw. n. 327. — Acervulis 3922 pulvinatis, cortici insidentibus, hypothecio basidiifero; basidiis filiformibus; conidiis fusiformibus, utrinque acutis, curvatis, albis, guttulatis, cirro plano, amene ochraceo.

Hab. in cortice Alni, Hoyerswerda. — a An Cryptosporium?n.

18. Næmospora leucostroma Preuss F. Hoyersw. n. 330. — Pustulis 3023 minutis, gregariis, erumpentibus; ostiolo perforante, nigrescente; stromate subgloboso, subalbo; peritheciis (anucleis?») numerosis, oblongis et polymorphis lobatis, atris, circinantibus, nucleo bulboso, atro; cirris filiformibus, coccineis; basidiis filiformibus, longis; conidiis fusiformibus, utrinque rotundatis, curvatis, minutis, albis.

Hab. in cortice Alni, Hoyerswerda. — aAn Cytosporu?n.

10. Næmospora conica Preuss F. Hoyersw. n. 329. — Emersa, con-3024 ceptaculo proprio, conico-difformi, cornea, subferruginea; cellulis circinantibus, ovatis, ferrugineis, in conceptaculis infossis; disco papilliformi perforante; basidiis brevibus, filiformibus; conidiis fusiformibus, utrinque obtusatis, curvatis; episporio cum nucleo confuso, albo.

Hab. in trabe quercina, Hoyerswerda. — «An Cylospora?».

melanconium Link in Willd. Sp. pl. Fungi II. p. 91 (Etym. melas niger et conia pulvis seu conidia) Callosisperma Preuss p. max. parte. — Acervuli vel nuclei subcutanei, conoidei v. disciformes, atri. Conidia in apice basidiorum solitarie acrogena e globoso oblonga, continua, fuliginea, denique in granulos v. cirros atros erumpentia et matricem fœdantia. — Sistit plerumque statum conidium Melanconidis v. Melanconiella. — Plures species auctorum veterum dubiæ sunt v. forte aliarum communium meræ forma; quadam conidiis subfusoideis donatæ forte ad genus Cryptomelam propius accedunt.

- I. In Dicotyledoneis vel plantis incertis.
- Melanconium cerasinum Peck 33 Rep. St. Mus. 26. Acervulis 3925 distinctis, minutis, albis; conidiis inæqualibus, globosis, ovatis, eltipticis v. oblongis, 16-25 μ. longis, plerumque late 1-nucleatis.

Hab. in cortice emortuo Pruni virginianæ, Center Americæ borealis.

2. Melanconium griseum Schw. Syn. Amer. bor. n. 2966. — Acer. 3926 vulis minutis, atris, prorumpentibus ex epidermide, demum disco applanato; conidiis minutissimis globosis, subpellucidis, colore griseo, epidermidem tingentibus, in quam denique sparguntur.

Hab. ad ramis Rubi Idæi in hortis Bethlehem Amer. bor.

3. Melanconium fusiforme (Pr.) Sacc. Callosisperma fusiformis Pr. 3927 F. Hoyersw. n. 332. — Innatum, erumpens, sparsum, epidermide fissa; peritheciis (?) lentiformibus, carneis; nucleo primo albo, tum atro; basidiis brevibus, filiformibus; conidiis oblongo-fusiformibus, coloratis; episporio glabro; nucleo curvato.

Hab. in ramulis Pruni Armeniacæ, Hoyerswerda.

4. Melanconium stromaticum Corda Icon. Fung. I. p. 3, Dapsilospo-3928 rium stromaticum Corda apud Sturm. p. 13, tab. 38. — Acervulis conicis, subcutaneis, stromate albido suffultis; conidiis obovatis, basi subapiculatis. intus granulosis, fuscis, effuso-fordantibus.

Hab. in ramulis Piri, Fagi et Carpini in Germania.

5. Melanconium Monotospora (C.) Sacc. Ntilbospora monotospora 3929 Cooke in Grevillea. — Subcorticalis, erumpens; acervulis orbicularibus; conidiis obovatis, continuis opacis, atrobrunneis, 22-25 \(\times 20\).

Hab. in cortice Magnoliæ glaucæ in Carolina inf. (RAVE-NEL). — Conidia quasi Monotosporæ.

6. Melanconium viscosum Schw. Syn. Amer. bor. n. 2964. — Acer- 3930 vis conidiorum provectiori ætate cum epidermide assurgentibus, sphæriæmorphis et quasi poro centrali apertis, quamvis carentibus ullo vero perithecio, sed epidermide solummodo inclusis; conidiis cylindrico-ovatis effusis demum per viscositatem ramuli, subpellucidis, non septatis.

Hab, in ramulis emortuis Robiniæ viscosæ in hortis Nazareth Amer, bor.

Melanconium globosum Cooke et Harkn. Grev. 1881 p. 128. — 3931
 Discoideum, erumpens, atrum; conidiis globosis, atro-fuscis, 10-11
 p. diam.

Hab. in ramis Eucalypti in California.

8. Melanconium Desmazierii (B. et Br.) Sacc. Mich. II. p. 355, F. it. 3932 t. 1083. Discella Desmazieri B. et Br. Ann. N. H. n. 427 t. 12 fig. 8. α, Epidochium Martensii West. Not. IV. p. 13. — Acervulis subcutaneis, depresse pulvinatis, absque perithecio, nigris, non vel vix erumpentibus 1 mill. latis; conidiis breve fusoideis, utrinque obtusiusculis, 30-35 ≈ 6-10, amœne azurreis, triguttulatis, basidiis filiformibus, sæpius furcatis, 50-60 ≈ 1½, hyalinis suffultis.

Hab. in ramis corticatis emortuis Tiliæ in Britannia, Gallia, Germania et Belgio.

9. Melanconium longissimum Bon. Abh. Geb. Mykol. I. pag. 49. — 3933 Acervulis subconvexis v. conicis atris; sacculis planis, obscure olivaceis, subplicatis, intus farctis, papillatis, hypostromate luteo, medio elevato; conidis longis utrinque acutatis, simplicibus; cirris atris ex ostiolo papillæ erumpentibus.

Hab. in cortice Tiliæ in Guestphalia.

10. Melanconium Hederæ Pr. F. Hoyersw. n. 312. — Sparsum; pe-3934 ritheciis (?) cum epidermide innata prominulis, convexis, tenuibus, nigris; ostiolo pertuso; pulpa conidiorum atra; basidiis filiformibus; conidiis ovatis, atro-fuscis, crasse l-guttatis, episporio glabro.

Hab. in ramulis Hederæ, Hoyerswerda. — «An Coniothy-

rium?».

11. Melanconium microspermum Nees Syst. d. Pilze p. 32. — Coni- 3935 diis minutis ovalibus v. ellipsoideis 6 = 5, fuligineis, 2-pluriguttulatis, in grumulos, epidermidem transigendo, coactis.

Hab. in ramis emortuis Hederæ Helicis et Alni glutinosæ in Germania et Italia bor.

12. Melanconium nephrospermum Mont. in Castag. Suppl., p. 84, et 3036 Syll. Crypt. n. 1144. — Acervulis confertis subrotundis, punctiformibus atris, epidermide dealbata tectis; conidiis oblongo-reniformibus, magnis, fuscis, primitus stipite longo suffultis.

Hab. in ramulis siccis et dejectis Jasmini fraticantis, apud Montaud-lez-Miramas Galliæ (Castagne).

13. Melanconium punctiforme Rabenh. Deutsch. Kr. Fl. n. 432. — 3937 Acervulis minutis, subcutaneo-erumpentibus, atris; conidiis globoso-ellipsoideis, majusculis, olivaceis, ex hypostromate subrotundo-depresso, flavido radiatim oriundis.

Hab. in ramulis Lycii barbari, Dresden Germaniæ.

14. Melanconium truncatum Schw. Syn. Amer. bor. n. 2968. — Acer-3938 vulis minoribus, sphæriomorphis, prorumpentibus ex epidermide, apice truncatis, aterrimis, demum subrotundis, effusis; conidiis proratione majoribus, ovatis et subdifformibus fuscis.

Hab. in epidermide Sambuci canadensis passim, Bethlehem America bor. — Affine M. conglomerato, gregarium quidem, sed non confluens.

15. Melanconium cellulosum B. et C. North Amer. Fungi n. 473. — 3939 Pustulis ellipticis, cuticula dein rimose fissa tectis; stromate celluloso; conidiis oblongis, nucleatis, 14-15 p. longis.

Hab. in sarmentis Rhois radicantis in Pensylvania America borealis.

- 16. Melanconium Oleæ Thüm. Pilze d. Œlb. p. 20. Acervulis spar- 3940 sis subparvis, verruciformibus, opace nigricantibus; conidiis ovoideis, crassiuscule tunicatis, grosse 2-nucleatis, 9-10,5 ≈ 6, fuligineis.

 Hab. in trunco Oleæ sativæ in Austria.
- 17. Melanconium Sassafras Schw. Syn. Amer. bor. n. 2965; Acer. 3041 vulis globosis, cum epidermide assurgentibus ut tubercula sparsa, demum ruptis et longe lateque spargentibus conidia opaca, ovata.

Hab. in junioribus ramis exsarum arborum Lauri Sassa-fras, totam epidermidem circumcirca fuligineo-fusco colore tingens, Bethlehem Amer. bor.

18. Melanconium Dothidea Schw. Syn. Amer. bor. n. 2967. — Acer- 8042 vulis majoribus prorumpentibus, epidermide cinctis, disco aut superficie undulatim tuberculosa (*Dothideam Sambuci* referentibus) aterrimis, compositis (sub microscopio) ex conidiis majusculis, non septatis, cylindricis, utrinque rotundatis, fuligineis.

Hab. in variis ramis præsertim Mori, Bethlehem Amer. bor.

19. Melanconium populinum Peck. Torr. bot. Club 1883, pag. 74. — 3948 Acervulis prominentibus, in fissuris longitudinalibus erumpentibus; stromate albo, minuto vel obsoleto; conidiis oblongis, nigris, 15-18 μ. long. in globulum nigrum expulsis.

Hab. in ramis emortuis Populi, Jowa Amer. bor. (Ellis).

20. Melanconium pallidum Peck, Rep. on the St. Mus. New York. 3044 t. I. fig. 7-8. — Stromate minuto, flavido; conidiis in grumulos atros erumpentibus, ovoideis v. oblongis, subinde leniter curvis v. subcymbiformibus, pallidis, 15-16 µ. longis, sæpe grosse 2-3-nucleatis.

Hab. in ramis Caryæ albæ, West Troy Amer. bor. — Conidia pallida, sed coacervata fusca.

21. Melanconium oblongum Berk. North Amer. Fungi n. 476. — Pu- 2045 stulis elevatis late conicis tectis; conidiis oblongis subinæquilateris, 1-guttatis, 20 v. longis.



Hab. in ramis Juglandis cinereæ, Massachusetts, Alabama, New Jersey, Greenbush Amer. bor. — Diversum dicitur a Melanc. ovalo.

22. Melanconium magnum (Crev.) Berk. Outl. pag. 324, Nemospora 3946 magna Grev. Sc. Fl. t. 376. — Acervulis gregariis, totum truncum subinde occupantibus; conidiis ovoideis v. subovatis, continuis, fuscis, 25-37 p. longis, in cirros longos exeuntibus.

Hab. in truncis Juglandis regiæ, Aceris, Carpini, Caryæ in Bohemia, Britannia Amer. bor. — Forma in Juglande verisimillime non differt a M. juglandino.

23. Melanconium Preussii Sacc. Callosisper ma ovata Preuss, F. Ho-3947 yersw. n. 331. — Gregarium, superficiale, peritheciis (?) corneis, ovatis, papillatis, nigris; nucleo gelatinoso, atro; basidiis filiformibus; conidiis ovatis, atris; episporio glabro, atro-corneo, nucleo repleto,

Hab. ad ligna Juglandis regiæ, Hoyerswerda.

24. Melanconium juglandinum Kunze in Fic. Fl. Dresd. p. 260, Mel. 3948 Juglandis Corda Ic. III. p. 21, fig. 53, Mel. ovatum Auct. p. p. — Acervulis gregariis, tectis, prominulis, depresso-conoideis, atris, basi flavicante; conidiis obovatis, 25 ≈ 15, intus granulosis, fuligineis, pedicellis prælongis simplicibus v. furcatis fultis, mox in grumulos v. cirros aterrimos majusculos effluentibus.

Hab. in ramis languidis Juglandis regiæ in Germania, Italia, Gallia. — Forma diffusa Corda (lc. III. p. 22, fig. 59) acervulis confluendo effusis, hinc inde occurrit.

25. Melanconium intermedium Peck. Rep. on the St. Mus. New York. 3949 Inter M. oblongum et M. magnum medium; conidiis valde inæqualibus, subglobosis, ovatis, ellipsoideis vel oblongis, atris, 25 µ. longis.

Hab. in ramis Caryæ, Buffalo et Greenbush Amer. bor. — Conidia majora quam in M. oblongo et minora quam in M. magno.

26. Melanconium elevatum Corda Ic. Fung. III. p. 22, fig. 60. — Stro- 3950 mate lato, albido, raro obliterato; conidiis ovoideis v. oblongis, brunneis, 12-13 μ. longis, coacervatis aterrimis.

Hab. in ramis quercinis, Langridge Britanniæ et in Bohemia.

27. Melanconium Papularia Fr. S. M. III. p. 489, Papularia Fagi 3951 Fr. Syst. Orb. veg. p. 85. — Pustulis subrotundis, parum elevatis, confertis, extus cinereo-nigricantibus, epidermide diu velatis, dein ea circumscissa erumpentibus; conidiis globosis, minutis, atris. Hab. in foliis siccis Fagi in Suecia et Germania.

28. Melanconium grande C. et Ell. in Grev. t. 99, fig. 11. - Pustu- 3952 lis nigris, sparsis, epidermide cinctis, vix prominulis; conidiis magnis, obtuse lanceolatis, brunneis, continuis, 55-65 = 18-20.

Hab. in cortice Fagi, Potsdam N. York Amer. bor.

29. Melanconium conglomeratum Link Sp. pl. Fungi II. p. 92, Mel. 3953 atrum Link Obs. I. p. 3, t. I. f. 7. - Conidiis subglobosis minutis, atris, opacis laxis, in grumulos primum subrotundos dein effusos digestis epidermideque scissa cinctis.

Hab. ad ramos emortuos sepimento rum in Germania, et Fagorum in Italia bor. - In speciminibus italicis, teste Rabenh. in Flora 1850, p. 631, conidia ex globoso ovoideo-oblonga, atrobrunnea, nucleo grumoso.

30. Melanconium ellipticum Corda Icon. Fung. I. p. 3, tab. 1, fig. 39, 3954 - Acervulis crassis, duris, nitidis, magnis, plerumque gyrosis, aterrimis; conidiis elongato-ellipticis, griseo-fuscis, subpellucidis.

Hab. in cortice Castaneæ sativæ, Matta de Alcarraques pr. Coimbra in Lusitania; in ramis arborum et cortice truncorum emortuorum in Bohemia.

31. Melanconium sanguineum Rabenh. Deutsch. Kr. Fl. n. 437. - Acer- 3955 vulis elongatis, sublinearibus; conidiis ovato-oblongis, sursum acutatis, fusco-flavidis, hypostromate convexo, subcarnoso, subsanguineo oriundis.

Hab. in cortice Castane we see emortuo in Italia boreali (RABENHORST, 1841).

32. Melanconium cinctum B. et C. North Amer. Fungi n. 474. — Pu. 3956 stulis nigris, epidermide cinctis; conidiis late obovatis, 20 u. long. minute 1-nucleatis.

Hab. in ramulis Castaneæ pumilæ in montanis Carolinæ superioris.

33. Melanconium ramulorum Corda Icon. Fung. I. p. 2 fig. 34 (ut 3957 var. M. bicoloris). - Acervulis sparsis, subcutaneis, depresso-conoideis, atris, hypostromate subolivaceo; conidiis ellipsoideis. 9-10 = 7-8, deorsum apiculatis, guttulatis, fuligineis, basidiis filiformibus conidio triplo longioribus hyalinis suffultis, demum effusoinquinantibus.

·Hab. in ramis corticatis Carpini in Bohemia, Germania, Gallia. - Mel. effusum Link, quocum nomine traditur etiam a dom. LIBERT, satis convenit.

34. Melanconium sycophilum Rabenh. Deutsch. Kr. Fl. n. 436. — 3958 Acervulis oblongis, atro-brunneis, epidermide cinctis; conidiis ob-

longis, acutiusculis, fuscis, ex hypostromate subcarnoso, rubescente oriundis.

Hab. in ramis siccis Fici Caricæ inter Como et Varese Italiæ borealis (RABENHORST, 1841).

35. Melanconium sphæroideum Link, Spec. pl. Fungi II. 92! ex cit. 3959 Moug., Stilbospora microsperma Moug. Stirp. Vog. — Acervulis minutis epidermide tumidula diu tectis, nigris; conidiis obovatis, utrinque, præcipue apice, obtusis, minutis, $10 \approx 6$, 1-2-nucleatis, olivaceo-fuscis.

Hab. in ramulis Alni glutinosæ in Vogesis.

36. Melanconium oblongatum Sacc. Callosisperma oblonga Pr. F. 3960 Hoyersw. n. 333. — Gregarium, erumpens; peritheciis (?) globosis, subcompositis, fusco-atris; papilla umbilicato-applanata, pertusa, fusca; nucleo atro; basidiis filiformibus; conidiis oblongis, fuscis; episporio glabro, atro-fusco; nucleo curvato, fusco, non firmo et guttulis oleosis repleto.

Hab. ad ramos exsiccatos Alni glutinosæ, Hoyerswerda.

37. Melanconium Stroma (Pr.) Sacc. Callosisperma Stroma Pr. F. 3961 Hoyersw. n. 334. — Transversim erumpens, ellipticum, planiusculum, atrum; stromate fusco, in cortice rostellato distante levi; rostro superne subincrassato; peritheciis (?) stromati insertis, subcompositis; nacleis atris, mucosis, tum in cirros erumpentibus; basidiis filiformibus; conidiis ovatis, fuscis, episporio corneo, atrofusco; nucleo fusco, curvato et guttula oleosa repleto.

Hab. in ramis exsiccatis Alni glutinosæ, Hoyerswerda,

38. Melanconium apiocarpon Link Sp. pl. Fungi II. p. 90. — Coni- 3962 diis majusculis obovato-piriformibus, 15 = 8-9, nucleatis, olivaceis, grumulos discoideos convexiusculos rotundos epidermide scissa cinctos infarcientibus.

Hab. in ramis Alni glutinosæ in Germania et Gallia.

39. Melanconium bicolor Nees Syst. Pilz. p. 32, f. 27, Corda Ic. I. 3963 p. 2, fig. 33. — Stromate elevato prominulo, intus pallido; conidiis compactis, ellipsoideo-subglobosis, olivaceis v. olivaceo-brunneis, 12 = 6, guttulatis.

Hab. in ramis Betulæ, Carpini et Quercus in Britannia, Germania, Gallia et Amer. bor.

40. Melanconium piriforme Pr. F. Hoyersw. n. 45. — Erumpens, gre-3964 garium, verruciforme; perithecio tenuissimo, stromate lato, fusco; acervis conidiorum atrorum diffluentibus; basidiis simplicibus, albis; conidiis obovatis piriformibusque, fuscis, pellucidis; nucleo granuloso-turbido et guttulis oleosis, magnis repleto.

Hab. in cortice Betulæ, Hoyerswerda.

41. Melanconium betulinum Schm. et Kunze Crypt. Exs. n. 208, Fuck. 3965 Symb. myc. p. 190. — Acervulis subcutaneis, conico-discoideis, atris; conidiis obovoideis v. ovatis, crassiuscule tunicatis, 15-18 ≈ 6¹/₂-8¹/₂ deorsum subacutatis, 1-guttatis v. granuloso-farctis.

Hab. in ramis emortuis Betulæ albæ et B. verrucosæ in Germania, Gallia, Italia, Austria, Sibiria asiatica.

42. Melanconium diffluens Corda Ic. I. p. 2, tab. I. fig. 38. — Stro- 3066 mato nullo; acervulis diffluentibus, nigris, nitidis; conidiis muco spurio conglutinatis, ellipticis, olivaceis, intus nucleum obscurum, pulposum, granulosum referentibus.

Hub. in ramis Carpini Betuli (et aliarum arborum?) in Germania.

43. Melanconium cocciferum (Corda) Rabenh. Deutsch. Kr. Fl. p. 46, 2987 Dapsilosporium cocciferum Corda Icon. Fung. I. pag. 3. tab. I. fig. 45. — Acervulis minutis punctiformibus, atris, plerumque seriatim aggregatis; stromate gelatinoso irregulariter effuso, pallide flavo; globulis minutis, atris rotundatis; conidiis minutissimis, globosis, fuscis subpellucidis.

Hab. in ligno sicco Pini in Bohemia. — « An potius Conio-sporium? ».

44. Melanconium Taxi Rabenh. Deutsch. Kr. Fl. n. 443. — Acervu- 3968 lis difformibus, atris, depressis; conidiis subclavatis, brunneis, ex hypostromate semigloboso, carnosulo pallido oriundis.

Hab. in ramis emortuis Taxi baccatæ in Helvetia.

45. Melanconium Pini Corda Icon. Fung. I. p. 3, tab. 1, fig. 41. — 3969 Acervulis crassis, atris; stromate nullo; conidiis obovatis, basi v. utrinque acuminatis, fuscis, pellucidis, 9-10 2. longis, nucleo concolore, guttulis oleosis duabus farcto.

Hab. in cortice Pini in Bohemia et Rhenogovia. — Var. cirratum Corda Icon. Fung. I. p. 3, t. 1, fig. 42: acervulis cirratim erumpentibus; conidiis majoribus, olivaceo-fuscis, obovatis, acuminatis, nucleo concolori, guttulam oleosam solitariam referentibus, 11-12 ≈ 6. In cortice Pini in monte Jæscken Bohemiæ.

46. Melanconium putredinis Wallr. Fl. crypt. n. 1566. — Conidiis 3970 subglobosis atris opacis majusculis, primum grumulos, ovatos convexos nigrescentes constituentibus, dein effusis, cubilia longe lateque inquinantibus.

Hab. ad ligna abietina fabrefacta, in humo uda congesta in Thuringia.

47. Melanconium glutinatum (Corda) Rabenh. Deutsch. Kr. Fl. n. 440, 3971 Trichoconium glutinatum Corda in Sturm. Krypt. Fl. t. 37. — Acervulis subcutaneo-erumpentibus, alte conoideis, aterrimis; conidiis obovato-piriformibus, atris; basidiis filiformibus furcatis longis.

Hab. in cortice emortuo arborum fructiferarum in Bohemia.

48. Melanconium varium B. et C. North Amer. Fungi n. 475. — Pu- 3972 stulis liberis, elevatis, subtruncatis; conidiis oblongis, subinde curvulis, 4 \(\alpha\). longis.

Hab. in ramis emortuis, New England Amer. bor. (Sprague).

49. Melanconium graphidioides Mont. VIII. Cent. Plant. cell. nouv. p. 3973 119. — Acervulis sparsis linearibus curvulis aut rectis, atris, cortice exteriori rupta tectis; conidiis tandem fuscis ex ovoideo-oblongis, fragilibus 20 μ. longis, sporophoris 40 μ. longis hyalinis fultis.

Hab. in cortice arboris ignote circa Cayennam (Leprieur).

50. Melanconium peritheciatum Schw. Syn. Amer. bor. n. 2969. — 3974 Referens fere Hypoxylon udum; ligno impositos acervos, aggregatos efformans; e pseudoperitheciis pluribus conicis aut irregularibus compositi sunt acervuli, quasi acute interdum ostiolatis, demum pertusis, sæpe lineatim confluentibus; aqua immersa, tota massa diffiuit in conidia majora globosa aut ovata, nigro-fuscescentia non septata, nec vestigium adest pseudoperithecii.

Hab. in ipso ligno denudato passim. Bethlehem Amer. bor.

51. Melanconium disseminatum Link Sp. pl. Fungi II. p. 91. — Co. 3975 nidiis inspersis conglomeratis, subglobosis, minutis, atris, pellucidis.

Hab. ad asseres semiputres passim in Germania et America bor. pr. Richmondville et Hunter. — « An potius Coniosporium? » Sec. Peck in Rep. on the St. Mus. N. Y. nuclei conidiorum occupant apices minutarum ligni protuberantiarum, veluti fungus putrescentiam ligni sibi proximi retardaret.

52. Melanconium olivaceum (Corda) Sacc. Myxosporium olivaceum 3976 Corda Icon. Fung. I. p. 1, tab. I. fig. 8. — Effusum, atrum; conidiis subglobosis, olivaceis, nucleo opaco, singulo farctis; muco luteo.

Hab. in ligno et caulibus lignosis herbarum prope Pragam.

53. Melanconium acutum Corda Icon. Fung. I. p. 3. tab. 1, fig. 43 (v. 3977 major). — Acervulis effusis, atris, stromate nullo; conidiis minutis, obovatis, acuminatis, cinereis, subpellucidis.

Hab. in cortice arborum emortuo, Prage in Bohemia. - Var.



minus Corda Icon. Fung. I. p. 3, t. 1, fig. 44: acervalis minoribus; conidiis minutissimis, obovato-acuminatis, aterrimis, impellucidis. In cortice arborum emortuarum, Pragæ in Bohemia.

54. Melanconium oosporum (Corda) Sacc. Myxosporium oosporum 397 Corda Icon. Fung. I. p. 1, tab. I. fig. 1. — Effusum, fuscum, nitidum; conidiis ovatis, fuscis, 1-guttatis, 7 μ. longis; muco pallide luteo.

Hab. in ligno decorticato sicco in Bohemia.

55. Melanconium effusum Link Sp. pl. II. p. 91, Corda Icon. Fung. I. 3979 p. 91, p. 2, t. 1, fig. 35. — Acervulis crassis, effusis, atris, compactis; stromate albo; conidiis ovatis, atris, impellucidis.

Hab. in cortice arborum in Germania.

56. Melanconium ovoideum Link Sp. pl. Fungi II. p. 90, Corda Icon. 3980 Fung. I. p. 2, t. 1, fig. 37. — Acervulis atris, diffluentibus; stromate spurio albido; conidiis ovato-rotundatis, luridis, subdiaphanis demum in grumulos depresse conoideos congestis.

Hab. in ramis emortuis arborum frondosarum in Germania.
57. Melanconium cryptosporium Corda Icon. Fung. I. p. 2, t. 1, fig. 3081
36. — Acervulis bullosis, epidermide semper tectis; stromate albo, minuto; conidiis aterrimis impellucidis, ovato-oblongis.

Hab. in ramulis arborum frondosarum emortuis in Germania.
58. Melanconium ovatum (Pers.) Link Sp. pl. Fungi II. p. 90, Stil-3982 bospora avata Pers. Syn. p. 96. — Conidiis magnis e figura ovali magis minusve basi tenuatis piriformibus atris pellucidis, in grumulos primum convexos dein effuso-deplanatos congestis epidermidemque transfusam obliterantibus.

Hab. ad arborum languidarum corticem siccum in Germania, Gallia. — Secundum Corda Melanc. oratum v. fusiformė Auctorum p. p. ad Steganosporium piriforme spectat.

II. In Monocotyledoneis et Acotyledoneis.

59. Melanconium melanoxanthum B. et Br. F. of Ceyl. n. 804. — 3983 Pustulis orbicularibus erumpentibus, floccis granulisve flavis cinctis; conidiis subglobosis angulatisve 15 μ. longis.

Hab. in petiolis Caryotæ urentis aliarumque palmarum in insula Ceylon et Mauritii. — Habitus fere Stictidis. — Forma major: pustulis zona coffeicolori cinctis, majoribus. In caule mono-cotyledoneo in Ceylon (Beccari).

60. Melanconium Palmarum Cooke in Ravenel Fungi Amer. - Pu. 3984

stulis erumpentibus, convexis, atris, centro pallidis; conidiis ovatis, atro-brunneis, $12 \approx 10$.

Hab. in foliis petiolisque Sabal, Darien Georgiæ.

- 61. Melanconium Pandani Lév. in Ann. Scienc. natur. Bot. 1845 p. 3985 66. Acervulis erumpentibus, atris, crassiusculis, prominentibus, 1-1½ mill. diam.; conidiis oblongis, apice rotundatis, deorsum subacutatis, 8-9 ≈ 4-5, 2-guttatis, olivaceis, basidiis prælongis, filiformibus, ramulosis, tortuosis, hyalinis, plerumque 40-50 ≈ 3 suffultis.
- Hab. in foliis Pandani culti Paris (Lévellé) et Lyon (Therry).
 62. Melanconium americanum Peck Rep. on the St. Mus. New York.

 Acervulis minutis subaggregatis v. in maculis subcircularibus circinantibus; stromate nullo v. obsoleto; conidiis compactis, subglobosis v. late ellipsoideis, 5-7 µ. longis, in grumulos conoideos effluentibus, matricemque atrantibus.

Hab. in foliis emortuis Agaves americanæ in hortis, Buffalo Amer. bor.

63. Melanconium Typhæ Peck Bot. Gaz. p. 275. — Acervulis pere- 3987 xiguis, punctiformibus vel anguste oblongis, epidermide denique longitudinaliter v. irregulariter fissa velatis; conidiis oblongo-fusoideis, atris, 10-14 = 4, basidio proprio sæpius persistenter hærentibus.

Hab. in folis emortuis Typhæ angustifoliæ, Charlotte, Vermont Amer. bor. (C. G. Pringle).

64. Melanconium Secalis Lib. in Herb., Cooke in Grevillea. — Acer- 3988 vulis minimis, globosis, nigris, primo tectis, demum fisso-erumpentibus; conidiis ovalibus, atris, simplicibus, cirratim erumpentibus.

Hab. in culmis Secalis cerealis in Arduennis (LIBERT).

65. Melanconium sphærospermum (Pers.) Link Sp. pl. Fungi II. p. 91, 3989 Stilbospora sphærosperma Pers. Syn. p. 97. — Acervulis compactis, oblongo-compressis, epidermide tumidula vix fissa tectis; conidiis globoso-depressis 8-10 μ. diam., 6-7 μ. cr., farctis, fuligineis.

Hab. in culmis Phragmitis communis, Arundinis Donacis, Arundinariæ giganteæ in Germania, Italia, Gallia, Britannia, Lusitania. — Gymnosporium inquinans Berk. Grev. VII. p. 45 huc forte spectat. A typo Coniosporii v. Papulariæ conidiis conglutinatis tectisque differt, a Melanconiis veris autem nisi basidiis minus evolutis non differt. Videretur tamen potius forma tecta compacta Coniosporii (Papulariæ) Arundinis Corda.



66. Melanconium Donacis Thum. Contr. Myc. Lusit. n. 190, Melan-3000 conium sphærospermum Link. var. Donacis Thum. in Rabh. Fungi europ. n. 1573. — Acervulis ellipticis, longis, numerosis, erumpentibus, longe diu epidermide tectis, postremo liberis pulverulentisve, aterrimis; conidiis plus minusve globosis vel etiam sæpe ellipsoideis, fuligineis, cum nucleo medio concolori magno, 5-8 μ. diam.

Hab. ad culmos emortuos subputridos Donacis arundina-

ceæ, Baleia prope Coimbra Lusitaniæ (Moller).

67. Melanconium parasiticum West. Not. IV. p. 12, Kickx Fl. cr. 3991 Fl. II. p. 92. — Acervulis rotundis v. oblongis, prominulis, atris, epidermide tectis, dein rimose erumpentibus; conidiis ovoideis, brunneis, subpellucidis, 7,5-10 μ. longis.

Hab. in ramis Clavariæ aureæ in Belgio.

CRYPTOMELA Sacc. (Etym. in mentem revocat Cryptosporium et Mclanconium, inter que fere medium genus), Cryptosporium Auct. p. p. — Acervuli seu nuclei subcutanei v. demum erumpentes, atri, minuti. Conidia fusoidea, sæpe curvula, atra.

1. Cryptomela Caricis (Corda) Sacc. Cryptosporium Caricis Corda 3992 in Sturm Crypt. Fl. II. t. 50. — Peritheciis perexiguis, vix conspicuis, hypophyllis, crebris, depresso-subrotundis, brunneis; conidiis fusoideis, rectis vel curvis, utrinque acutis, brunneis, sub-

diaphanis.

Hab. in foliis Caricum in Bohemia, Britannia, Amer. bor.

2. Cryptomela atra (Kunze) Sacc. Cryptosporium atrum Kunze 3993 Myk. Heft. I. p. 3, t. 1, f. 1, Corda in Sturm Deutsch. Kr. Fl. t. 49. Cr. graminis Fr. S. M. III. p. 482. — Acervulis minutis, elongatis v. ellipticis, tarde erumpentibus, atris; conidiis fusiformibus curvis utrinque acutis, compactis, nigricantibus opacis.

Hab. ad culmos et folia graminum, Caricum præprimis, lan-

guida, circa Lipsiam (Kunze), Berolinum (Eisenhart, Link).

3. Cryptomela Ammophilæ (Dur. et Mont.) Sacc. Cryptosporium Am- 3094 mophilæ Dur. et Mont. in Mont. Syll. n. 996. — Pseudo-peritheciis punctiformibus, atro-nitentibus, stromate tenui celluloso deplanato suborbiculari atro; basidiis brevissimis; conidiis oblongo-fusiformibus atro-brunneis.

Hab. in foliis siccis Ammophilæ arenariæ, La Calle Al-

geriæ (Durieu).

4. Cryptomela Arundinis (Dur. et Mont.) Sacc. Cryptosporium Arun-3995 dinis Dur. et Mont. in Mont. Syll. n. 995. — Pseudo-peritheciis innatis, mox denudatis, minutis, punctiformibus, convexis, atris, stromate celluloso succineo immersis; conidiis olivaceis fusiformibus, altero fine guttula hyalina notatis et pedicellatis.

Hab. in feliis vaginisque Arundinis giganteæ in Alger (Durieu).

5. Cryptomela confluens (Kunze) Sacc. Cryptosporium confluens 3996 Kunze in Fr. Syst. Myc. III. p. 483. — Stromate nullo; acervulis oblongis sæpe confluentibus; conidiis ovalibus rectis, atris, seriatim secedentibus.

Hab. ad folia Panici in Gujana (Weigel). — «An Melan-conium?».

6. Cryptomela betulina (Corda) Sacc. Cryptosporium betulinum 3997 Corda Icon. 1. p. 2, fig. 32. — Acervulis atris, tectis; conidiis subfusiformibus, minutis, fuscis.

Hab. in ramulis Betulæ carpathicæ prope Pragam in Bohemia.

- THYRSIDIUM Mont. Ann. sc. nat., 2, VI. p. 338, et Fl. Alg., I. p. 324 (Etym. a thyrsos, ob conidiorum dispositionem). Myriocephatum De Not. non Benth., Cheirospora Fr., Hyperomyxa Corda. Rhabdosporium Chev. Stroma gelatinosum, subcorticale, epidermide tectum, dein eadem rupta erumpens, atro-inquinans; basidia flocciformia, hyalina, tenuissima, ramosa, continua aut obsolete septata, undique irradiantia; conidia globulosa in series cheiromorphas moniliformi-concatenata, olivaceo-fuliginosa, semiopaca atque in capitula terminalia thyrsoidea aut sphærica, muco obvoluta, arcte conglomerata.
- 1. Thyrsidium hedericolum (De Not.) Dur. et Mont. Fl. Alg. I. p. 325. 3998 Sacc. F. ital. t. 1099. Myriocephalum hederæcolum De Not. Micr. ital. III. p. 18, f. 10, M. densum Fuck. Enum. Fung. Nass. p. 23. Acervulis gregariis, globoso-depressis, atris, epidermide velatis, mox in grunulos tremelloideos plano-convexos effluentibus; stromate pallido subgelatinoso; basidiis filiformibus dichotomis v. ramosis; conidiis minutis, globosis, in capitula subsphærica dense conglomeratis, olivaceis 3 p. diam.

Hab. in ramulis Hederæ Helicis in Italia, Germania, Britannia, Gallia. — Var. Carpini. In ramulis Carpini Betuli et C. americanæ in Gallia, Germania, Amer. bor.

2. Thyrsidium botryosporum Mont. Syll. p. 310 et Ann. Sc. nat. 1836, 3999 t. XVIII. f. 5, Fres. Beitr. t. 5, f. 9, Sacc. F. it. t. 1100, Myriocephalum botryosporum Fres. Beitr. p. p. t. V. f. 8, 9. M. laxum Fuck. Enum. Fung. Nass. p. 23, Rhabdosporium diffusum Chev.—Acervulis minutis convexis conicisve, epidermide rupta atro-inquinatis; conidiis globoso-obovatis, olivaceis, fuscescentibus, in capitula subrotunda laxe conglomeratis, $3 \approx 2,5-3$.

Hab. in ramulis fagineis in Gallia, Germania, Italia, Belgio, America boreali.

3. Thyrsidium Micheneri (B. et C.) Sacc. Cheirospora Micheneri B. 4000 et C. North Am. Fungi n. 492. — Soris elevatis, minutis; capitulis longe pedicellatis globosis v. irregulariter obovatis, fuscis e conidiis globosis indefinitis, membrana tenui circumdatis; basidiis subinde furcatis.

Hab. in ramis Carpini in Pensylvania Amer. bor. — «An diversum e Th. hedericolo f. Carpini?».

4. Thyrsidium betulinum Karst. F. Vain. p. 142. — Acervulis spar- 4001 sis, innato-erumpentibus, pulvinatis, subdepressis, orbicularibus v. ovoideis v. ellipsoideis, atris, levibus, 0,2-0,4 mill. diam; basidiis valde flexuosis, continuis, fuligineis, pellucidis, 6 μ. cr.; conidiis in glomerulos sphæroideos v. ovoideos, usque ad 34 μ. diam., congestis, sphæroideis, fuligineis, diaphanis, 6-10 μ. diam.

Hab. ad corticem levem induratum Betulæ albæ, Köngäs ad

mare glaciale et in M. Sallatunturi ad Knolajärvi.

5. Thyrsidium oblongum (Fuck.) Sacc. Myriocephalum oblongum 4002 Fuck. Symb. myc. p. 351, tab. I. fig. 9. — Acervulis erumpentibus, aterrimis; conidiorum capitulis oblongis, densis; conidiis globosis; basidiis filiformibus subinde furcatis.

Hab. in ramis siccis Abietis excelsæ, raro pr. Æstrich

Rhenogoviæ.

6. Thyrsidium turbinatum (Bon.) Sacc. Hyperomyxa turbinata Bon. 4003 Handb. p. 150. — E ligno erumpens, brunneum; basidiis radiantibus apice capituligeris, anastomosantibus, apice non inflatis.

Hab. in lignis in Guestphalia.

7. Thyrsidium stilbosporoides (Corda) Sacc. Hyperomy ca stilbospo-4004 roides Corda Icon. fung. III. p. 34, fig. 89. — Acervulis punctiformibus, gregariis, nigris, emergentibus; stromate albo; hyphis ramosis, filiformibus; conidiis globoso-oblongis inæqualibus, fuscis, guttulatis, 5,5-6,5 \(\mu\). longis, in capitula oblonga v. obovata densiuscule congestis.

Hab. in fragmentis ligneis (primitus corticatis?) Coryli Avellanæ, Reichenberg Bohemiæ.

- DIDYMOSPORIUM Nees Syst. p. 33, em. Sacc. Mich. II. p. 11 (Etym. didymos et spora). Acervuli saprogeni, globosi vel oblongi tecti, mox erumpentes. Conidia oblonga vel fusoidea, 1-septata. fusca v. fuliginea, sæpius breve stipitata. Plures veterum species, male exploratæ, propius forte spectant Melanconium vel Dicoccum vel Coniothecium.
- 1. Didymosporium Striola Sacc. F. it. 1098, Mich. II. p. 540. Acervulis gregariis punctiformibus, atris, innato-erumpentibus, discoideis; conidiis oblongis, deorsum acutiusculis, constricto-1-septatis, 7-10 = 4-5, binucleatis, fuligineis; basidiis bacillaribus conidio paullo brevioribus, hyalinis e strato proligero fusco oriundis.

Hab. in ramulis languidis Lycii europæi, Licata Siciliæ (V. Beltrani).

2 Didymosporium atro-cœruleum Oud. Mat. Myc. Nederl. II. p. 26 4006 t. IV. f. 2. — Acervulis subcutaneo-erumpentibus, atro-cœruleis; conidiis ovoideis v. obovoideis initio hyalinis continuis, dein atro-cœruleis, 1-septatis, non v. vix constrictis, 25-30 = 12-15; basidiis filiformibus, conidio triplo fere longioribus.

Hab. in ramis Urostigmatis Neumanni in horto bot. Amsterdam Neerlandiæ.

3. Didymosporium culmigenum Sacc. F. ital. t. 1097, Mich. II. p. 539. 4007

— Acervulis gregariis innato-erumpentibus, punctiformibus, atris; conidiis oblongo-fusoideis, constricto-1-septatis, utrinque acutiu-sculis, rectis curvulisve, 14-15 \(\pi 5-6\), biguttatis, fuligineis; basidiis bacillaribus, 5-8 \(\pi 1\) e strato proligero parenchymatico fusco oriundis, hyalinis.

Hab. in culmis Sorghi vulgaris, Selva (Treviso) Ital. bor.

- Conidia initio continua, hyalina.

4. Didymosporium Carpini Corda Icon. fung. I. p. 7, fig. 106. — Acer- 4008 vulis ovalibus v. oblongis, transversim positis, parum prominulis, atris, epidermide fissa cinctis; conidiis ovoideis, utrinque obtusiusculis, 1-septatis, non constrictis, brunneis, subpellucidis, loculis sepe inequalibus; basi stromatica albida.

Hab. in ramulis Carpini Betuli in Bohemia et Belgio.

5. Didymosporium profusum (Grev.) Fr. S. Mich. III. p. 487, Stilbo-4009 spora profusa Grev. Sc. Crypt. Fl. t. 212, fig. 1. — Acervulis

Melanconieæ, Didymosporæ, Didymosporium.

764

majusculis, conicis, subcutaneis, atris, centro erumpentibus; conidiis minutis ovoideo-oblongis, l-septatis, atris, dein effluentibus.

Hab. in ramis corticatis Fagi silvatice et Aceris Pseudoplatani et Platanoidis, Edinburgh Scotiæ et in Suecia. — Species omissa in mycographiis anglicis Berkeleyi et Cookei.

6. Didymosporium effusum Schw. Syn. Amer. bor. n. 2974. — Acer- 4010 vulis subelongatis ovato-convexis, subhysteriomorphis, interdum rotundatis, disco impressis, nigris, plerumque prorumpentibus et confluentibus, epidermide cinctis, sed etiam omnino liberis; conidiis copiosis pellucidis, didymis profluentibus lateque effusis.

Hab. in cortice suberoso putrido Ulmi fulvæ, Bethlehem Ame-

ricæ borealis.

7. Didymosporium erumpens Schw. Syn. Am. bor. n. 2975. — Acer- 4011 vulis ovato-ellipticis, erumpentibus, epidermide cinctis, disco impresso et passim colliculoso, sæpe confluentibus et aterrimis; conidiis crebris, oblongis, didymis; sporodochio 2-4 mill. diam.

Hab. in ramis Celastri per epidermidem erumpens, Bethlehem

Americae horealis.

8. Didymosporium minutissimum Schw. Syn. Amer. bor. n. 2976. — 4012 Acervulis minutissimis longe lateque ex epidermide more Sphæriarum erumpentibus, nigris, epidermide subtectis, subglobosis; conidiis minutissimis globosis sed uniseptatis aut quasi ex duobus hemisphæris constantibus.

Hab. in cortice Populi italicæ et Platani, Bethlehem Amer. bor.; in ramis Platani occidentalis, Buffalo (Chinton in

Peck Rep. sub Melanconio).

Didymosporium acuminatum Schw. Syn. Amer. bor. n. 2977. — 4013
 Acervulis minutis subcorticalibus transversim prorumpentibus; sporodochio intus albo, spurio; conidiis didymis, crebris, utrinque acuminatis.

Hab. non rarum in cortice juniore ramorum Betulæ, Bethlehem Amer, bor. — Structura interna non dissimile a D. clevato seu Melanconio bicolore, sed multo minus. «An potius ergo Melanconium?».

10. Didymosporium Celtidis Schw. Syn. Amer. bor. n. 2973. — Acer- 4014 vulis subfasciculatim ex cortice prominentibus, difformibus, nigris; conidiis compactis, didymis, utrinque subacutis, fuscescenti-nigris creberrime profluentibus, lignum et corticem inquinantibus.

Hab. in ramis valde corruptis Celtidis occidentalis, Beth-

lehem Amer. bor.

Melanconieæ, Didymosporæ, Didymosporium.

11. Didymosporium corticale Schw. Syn. Amer. bor. n. 2979. - Acer- 4015 vulis effusis, tenuissimis, applanatis, plerumque orbiculatis, tuberculos minutos referentibus; conidiis didymis, nigris, quasi ex duobus globulis formatis.

Hab. in cortice glabrato Rhois, Bethlehem Amer. bor.

12. Didymosporium Calycanthi Schw. Syn. Amer. bor. n. 2978. — 4016 Acervulis elliptico-difformibus, confluentibus, longitudinaliter erumpentibus, epidermide ciuctis; sporodochio irregulari, subconvexo, applanato, fusco-nigro; conidiis oblongis, utrinque subacutis, didymis.

Hab. passim in ramulis Calycanthi emortui, Bethlehem Ame-

ricæ borealis.

13. Didymosporium? macrospermum Corda Ic. IV. p. 5, fig. 17, Fres. 4017 Beitr. p. 104, t. XII. fig. 39-41. — Acervulis atris, gregariis minutis, opacis; conidiis ovoideis, fuscis, utrinque pallidioribus, ad medium annulo septiformi (septo?) atro ornatis, $12-15 \approx 5-6$; basidiis nullis v. obsoletis.

Hab. in ligno putri quercino in silvis et cellis vinariis in Bohemia et Rhenogovia. --- Uterque conidii loculus medio denique tenuiter dividitur et tunc conidium 3-septatum evadere videtur. Fungillus probabiliter inter Hyphomycetes demetieos aptius militaret. Secundum B. et Br. ad Coryneum macrospermum suum pertinet, quod oppugnat cl. Fresenius l. c.

14. Didymosporium conglutinatum Corda Ic. fung. II. p. 5, fig. 23. - 4018 Acervulis libere (?) evolutis, confluentibus, aterrimis, hypostromate te gelatinoso, granulis atris, minutissimis, molecularibus repleto dein diffluente; conidiis didymis oblongis, episporio crasso, atro, nucleo

luteolo homogeneo.

Hab. in foliis Quercus, parasitice, teste Corda, supra Cladosporium epiphyllum, pr. Prag Bohemiæ.

II. Epiclinium Fr. Summa V. S. p. 475.

Conidia pedicellata adnata stromati corneo, marginato et dein in tuberculum corneum coalita.

15. Didymosporium pezizoideum Schw. Syn. Amer. bor. n. 2972. — 4019 Acervulis pezizoideis, marginatis, cinereo-atris, dense aggregatis et epidermide stellatim rupta cinctis; disco 1-2 lineari diam., impresso; forma acervulorum quasi angulata, ob mutuam pressionem; juniore ætate sporodochium undique conidiis crebris nigris, uniseptatis onustum; denique conidia fere coalescentia cum sporodochio indurato et intus subcorneo et albido.

Hab. passim in cortice putrido ramorum Mori albæ, gregarie crescens, Bethlehem in America boreali. - An novum genus? (præeuntibus Schweinitz et Fries.). - Ad pedalem longitudinem aggregati acervi ambiunt ramos et cum cortice fibroso faciliter evelli possunt.

- BULLARIA DC. Fl. Fr. II. p. 226 (Etym. a bulla), Phragmotrichum Corda p. p. - Acervuli subcutanei, caulogeni. Conidia oblonga. medio 1-septata vel didyma, fusca, per filamenta hyalina conjuncta et catenulatim digesta. - Est quasi Phragmotrichum sed conidia didyma.
- 1. Bullaria Umbelliferarum DC. Fl. Fr. II. p. 226, Phragmolrichum 4020 Bullaria (Link) Corda Ic. fung. I. p. 10, f. 149, Puccinia Bullaria Link Sp. pl. Fungi II. p. 78, Stilbospora bullata Link. -Acervulis oblongis minutis, epidermide bullosa tectis dein erumpentibus; basi stromatica pallida; conidiis oblongis, utrinque truncatis, 1-septatis, non constrictis, pallidis, dein fuscis, sæpe 2-guttatis, 16-18 µ. longis, filamentis connectivis filiformibus conidium subæquantibus, hyalinis continuis; basidiis bacillaribus dichotomis.

Hab. in caulibus siccis Umbelliferarum majorum e. g. Libanotis in Gallia, Bohemia, Belgio et Germania.

- SEPTOMYXA Sacc. (Etym. septum et myxa h. e. Myxosporium, conidiis 1-septatis). - Nuclei vel acervuli globoso-depressi, subcutanei, demum suberumpentes, sæpe læticolores, carnosuli. Conidia ellipsoidea vel oblonga, 1-septata, subhyalina. - Est quasi Myxosporium conidiis 1-septatis.
- 1. Septomyxa persicina (Fres.) Sacc. Næmospora persicina Fres. 4097 Beitr. p. 33, t. III. f. 53-55. - Acervulis depresso-conoideis, subcutaneis, dein erumpentibus, intus albidis, minutis; conidiis oblongis, constricto-l-septatis, utrinque rotundatis, rectis vel leniter curvis, 11-14 = 3, subhyalinis in cirros elongatos tortos pulchre persicinos effluentibus.

Hab. in epicarpio Cucurbitæ putrescentis in Germania.

2. Septomyxa Æsculi Sacc. Myxosporium? aberrans Sacc. Mich. I. 4022 p. 128, Cryptosporæ Æsculi status conid. Fuck. Symb. p. 193. — Nucleis gregariis, subcutaneis dein erumpentibus, varie sinuosis sordide roseis; conidiis e strato prolifero ochraceo fasciculatim oriundis, stipitatis, ovato-fusoideis, rectis curvulisve, 1-septatis, sæ-

Melanconieæ, Didymosporæ, Marsonia. 767 pius constrictis, 15-16 ≈ 3-4, e hyalino dilutissime roseis; basidiis

cylindraceo-conoideis, conidio paullo longioribus.

Hab. in cortice Esculi Hippocastani in horto botanico Berolinensi (P. Magnus) et in Rhenogovia (Fuckel).

3. Septomyxa exulata (Jungh.) Sacc., Didymosporium exulatum 4023 Jungh. Præm. Fl. Java, p. 3. — Acervulis convexis, pulvinatis, sparsis, subepidermicis, incarnatis, subpulverulentis; conidiis majusculis, ovoideis, medio septatis, carneis, in nucleum conglutinatis.

Hah. in corbiculis e ramis salicinis contextis in navigio

prope insulam Javam.

MARSONIA Fisch. in Raben. F. Eur. n. 1857, Sacc. Mich. II. p. 11 (Etym. a cl. Th. Marsson, botanico germanico). — Acervuli biogeni, semper vel diu foliorum epidermide tecti, globoso-discoidei, pallidi. Conidia ovoidea vel oblonga, 1-septata hyalina. — Est Glæosporium conidiis 1-septatis.

1. Marsonia Populi (Lib.) Sacc. F. it. t. 1062, Glæosporium Populi 4024 (Lib.) Mont. et Desm. Exs. n. 2129. Leptothyrium Populi Lib. Ard. p. 257, Desm. XIII Not. (1846) p. 67, Asteroma labes Berk., Gl. labes B. et Br., Cooke Handb. p. 474, Glæosp. Berkeleyi Mont. Ann. Sc. nat. 1849, XII. p. 296. — Maculis suborbicularibus, epiphyllis, subinde confluentibus, brunneis, sæpius atro-marginatis; acervulis convexis dein applanatis, fulvescentibus; conidiis obovato-subpiriformibus, $20 \approx 12$, 1-septatis, leniter constrictis, rectis v. curvulis; cirris albidis, sæpe vero obsoletis.

Hab. in pagina superiore foliorum Populi nigræ, italicæ et albæ in Gallia, Britannia, Belgio, Italia, Austria, Germania. — Glæosporium Castagnei Mont. Syll. p. 195, huic valde affine, differt maculis minus atris, conidiis angustioribus, non constrictis; hinc Gl. Populi Oud. Mat. Neerl. II. p. 29, t. X. f. 17 videtur

potius Gl. Castagnei.

2. Marsonia piriformis (Riess) Sacc. Didymosporium piriforme 4025 Riess in Hedw. I. p. 23 cum icone, Oud. Mat. Myc. Neerl. II. p. 73, tab. XII. fig. 27. — Endophyta, solitaria aut gregaria, macula nigro-fusca circumdata, epidermidem in pustulas minutas extollens; conidiis ex stromate tenuissimo celluloso natis, albis, pellucidis, oblongo-piriformibus, 20-21 × 8-10, infra medium 1-septatis et distincte constrictis; basidiis bacillaribus conidio quarta parte brevioribus.

Hab. in pag. sup. foliorum vegetorum Populi albæ in Ger-

mania et Hollandia. — Fungillum cum *Marsonia Populi* v. M. Castagnei collidere autumavi, sed icon. in Oud. l. c. diversam rem sistere videtur; dubium tamen gravissimum restat.

3. Marsonia Castagnei (Desm. et Mont.) Sacc. F. ital. t. 1068, Gloeo-4026 sporium Castagnei Desm. et Mont., Cent. VI. n. 79, l. c. et Castagne, Supplem, p. 58, t. IX. — Epiphylla in maculis orbicularibus confluentibus, brunneis; conidiis oblongo-clavatis, 18-20 \(\times 7-8\), 1-septatis non vel lenissime constrictis, hyalinis, brevissime pedicellatis; cirris niveis crassis.

Hab. in pagina superiore foliorum Populi albæ, Montaud et Aix in Gallia meridionali (Сахтаске), in Vogesis (Моискот), prope Hattenheim (Гискец).

4. Marsonia truncatula Sacc. Mich. II. p. 354. F. ital. t. 1064, Gloeo- 4027 sporium truncatulum Sacc. M. V. n. 971 et Mich. I. p. 221. — Maculis arescendo ochraceis, variis; acervulis gregariis hypophyllis e rotundo angulosis, fulventibus vix prominulis; conidiis obovoideis, 8-10 ≈ 4-5. 1-septatis, loculo superiore crassiore, inferiore truncato, viridulis.

Hab. in foliis languidis Aceris Negundinis et Aceris campestris in Italia, Gallia, et Germania. — Suspicor speciem hanc eamdem esse ac Didymosporium Aceris (Lib.) Mont. h. e. Cheilaria Aceris Lib. seu Ascochyta Aceris (Lib.) Fuck. Sec. Hoffm. Ind. 49 cum hac specie quoque synonyma sunt Depasea Aceris Desm., Dep. acericola Desm., Sphæria acericola Duby; exemplaria vero et descriptio completa mini desunt. Phyllosticia destruens f. Negundinis Thum. F. A. n. 1284 (nec Desm.) huc pertinet.

5. Marsonia Juglandis (Lib.) Sacc. F. ital. t. 1095, Leptothyrium Ju. 4028 glandis Lib. Exs. n. 164, Glocosporium Juglandis (Lib). Mont.

— Maculis hypophyllis, subcircularibus v. irregularibus, fusco-cinerescentibus; acervulis applanatis, rugulosis, brunneis, minutis; nucleo griseo; conidiis fusoideis, incurvis, apice subrostratis, 1-septatis, 20-25 = 5, hyalinis.

Hab. in foliis Juglandis regiæ et J. nigræ in Italia, Gallia, Germania, Britannia, Lusitania.

6. Marsonia Thomasiana Sacc. F. ital. t. 1067, Glocosporium Tho-4029 masianum Sacc. Mich. I. p. 129. — Maculis parvis subcircularibus, amphigenis, rufis; acervulis in media macula erumpentibus, albidis; conidiis ex ovato oblongis utrinque rotundatis, constrictodidymis, 25-30 ≈ 12-15, quandoque loculo uno laterali accedente,

rarius conidiis duobus confluentibus, 2-4-guttulatis, hyalinis, basidiis crassis oblongis, conidium subæquantibus, fultis.

Hab. in pagina superiore et inferiore foliorum languidorum Evonymi latifolii ad Soolenleitung am Fürstenstein bei Berchtesgaden in Salzkammergut (bei Reichenhall) in Bavaria (Doct. Fr. Thomas in herb. P. Magnus).

7. Marsonia Neilliæ Harkn. F. Calif. p. 11. — Maculis minutis, an- 4030 gulosis, brunneis; acervulis epiphyllis; conidiis hyalinis, curvis, 25-30 ≈ 8, prope medium constricto 1-septatis.

Hab. in foliis vivis Neilliæ opulifoliæ, Berkeley Cali-

forniæ.

8. Marsonia Loniceræ Harkn. F. Californ. p. 11. — Maculis irre- 4031 gularibus, albis, brunneo-marginatis; acervulis sparsis, epiphyllis; conidiis clavatis, sæpe curvulis, hyalinis, 35-40 = 7-9, prope basim septatis.

Hab. in foliis vivis Loniceræ conjugalis, Sierra Nevada

Californiæ.

9. Marsonia Daphnes (Desm. et Rob.) Sacc. F. ital. t. 1063 et Mich. 4)32 II. p. 541, Gloeosporium Daphnes Oud. Mat. Myc. Neerl. II. p. 28, t. X. f. 14. Septoria Daphnes Desm. et Rob. X. Not. p. 22. — Amphigena; maculis viridulis irregularibus, dein fuscellis; acervulis, exiguis, sparsis v. gregariis, pallidis, tectis; cirris albidis; conidiis ovoideis, curvulis, utrinque acutis, prope basim uniseptatis, 20 \approx 4-5, hyalinis, granulosis, brevissime septatis.

Hab. in foliis subvivis Daphnes Mezerei in Gallia et Neer-landia. — «An eadem species ac Leptothyrium Mezerei Lib.?».

10. Marsonia Martini Sacc. et Ell. Mich. II. p. 574. — Maculis am-4033 phigenis, minutis, ochraceis; pustulis in centro maculæ gregariis, sæpius hypophyllis, globulosis, subsuccineis, minutis; conidiis fusoideis, curvis, utrinque acutis, 1-septatis, leniter constrictis, 12-15 = 2,5, 4-guttulatis, hyalinis; basidiis brevissimis viridulis.

Hab. in foliis subvivis Quercus obtusilobæ, Chester Count.

Pensylvaniæ (Doct. G. Martin).

11. Marsonia Atragenes Thum. Pilzfl. Sibir. n. 678. — Acervulis 4034 sparsis, epiphyllis, lenticularibus, vix prominulis, ochraceis in macula subsinuosa, arescendo ochraceo-fusca, obscurius marginata; conidis subcylindricis, utrinque rotundatis, rectis vel leniter curvatis, medio plerumque subinflexis et proinde calceiformibus, uniseptatis, sæpe binucleatis, 16-18 \approx 6-7, hyalinis.

Hab. ad folia viva Atragenes alpinæ in silvis prope lacum Bulakul in Sibiria asiatica.

12. Marsonia Delastrei (De Lacr.) Sacc. Mich. II. p. 119, F. it. tab. 4035 1066, Glæosporium Delastrei De Lacr. in Mont. Cent. Cell. II. p. 345. — Maculis vagis, flavido-sordidis, amphigenis; acervulis minutis vix erumpentibus, lutescentibus; conidiis clavato-obpiriformibus, 20-25 ≈ 6-7, sæpe inæquilateralibus, infra medium denique 1-septatis, 4-5-guttulatis v. nubilosis, hyalinis, basidiis teretibus brevibus, 8-10 ≈ 3, suffultis.

Hab. in utraque pagina foliorum Lychnidis dioicæ, L. chalcedonicæ, Agrostemmatis Githaginis, Silenes inflatæ in Gallia, Germania, Italia, Austria, Sibiria. — Specimina in Rabh. F. E. 2067, Oudem. F. n. 89, Schröt. P. Bad. 95 congruunt. Glæosporium Lychnidis Oud. Aanw. I. pag. 3, forte sistit statum immaturum.

13. Marsonia Violæ (Pass.) Sacc. Glacosporium Violæ Pass. Micr. 4036 ital. n. 18. — Acervulis epiphyllis, sparsis folium decolorantibus, castaneis; conidiis oblongis rectis vel curvis, subinde falcatis, primo integris, tandem obscure extra medium septatis, intus granulosis, 15-18 ≈ 5.

Hab. ad folia languida Violæ bifloræ interdum cum Puccinia Violæ in Apennino parmensi (Lago santo) Italiæ borealis.

14. Marsonia Potentillæ (Desm.) Fisch. in Rabenh. F. Eur. n. 1857, 4037 Sacc. F. it. tab. 1070, Glæosporium Potentillæ (Desm.) Oud. in 26 Jarg. Ned. III. Beil. p. 3, Phyllosticta Potentillæ Desm. Ann. Sc. nat. VIII. pag. 31 (1847). Leptothyrium Dryadearum Desm. Septoria Potentillarum Fuck. — Maculis epiphyllis subcircularibus, sanguineis; acervulis tectis, lenticularibus, pallidis, minutis; conidiis oblongo-fusoideis, 20-25 ≈ 7-9, falcatis, apice subrostratis, 4-guttulatis, hyalinis; basidiis brevissimis.

Hab. in pag. sup. foliorum subvivorum Potentillæ reptantis, P. fragarioidis, P. latifoliæ, P. anserinæ etc. in Gallia, Germania, Italia, Belgio, Sibiria.

15. Marsonia andurnensis (Ces.) Sacc. F. it. t. 1069 et Mich. p. 541, 4038 Glæosporium andurnense Ces. in Rabenh. F. Eur. n. 98. — Maculis nullis vel obsoletis; pustulis minutis, pallidis, tectis, leniter prominulis; conidiis clavatis, deorsum valde attenuatis, uniseptatis, 10-15 ≈ 5-6, granulosis, hyalinis; basidiis teretibus conidio brevioribus.

Hab, in caulibus languidis Passerinæ annuæ prope Andorno (Cesati) et Vigheffio, Parma (Passerini).

16. Marsonia Meliloti Treal. Fung. Wiscons. p. 16. — Acervulis mi- 4039 nutis inconspicuis, in series 2-5 mill. longas digestis; conidiis oblongis, rectis v. leniter curvis, 13-20 \(\pi\) 5-6, bicellularibus, hyalinis; septo in majoribus infra medium, in minoribus ad medium sito; cirris pallide carneis.

Hab. in caule Meliloti albæ, Madison Amer. bor.

17. Marsonia smilacina Thüm. Contr. Myc. Lusit. n. 457. — Acer- 4040 vulis epiphyllis, numerosis, minutissimis, fere punctiformibus, fuscis, emersis in macula irregulari, ochraceo-fusca, indeterminata, non marginata; conidiis paucis, cylindricis, subarcuatis, utrinque truncatulis, medio uniseptatis, achrois, 14-20 = 4-5.

Hab, in foliis vivis Smilacis mauritanicæ prope Coimbra Lusitaniæ (Moller).

STILBOSPORA Pers. Syn. Fung. p. 96, em. Sacc. Mich. II. pag. 11. (Etym. stilbos splendidus et spora, ob pulchritudinem conidiorum). Acervuli subcutanei conoidei v. disciformes, atri. Conidia oblonga v. fusoidea, 2-pluriseptata, fuliginea, denique cirrose protrusa et atro-inquinantia.

1. Stilbospora brevis B. et R. North Am. Fungi n. 477. - Subcor- 4041 ticalis; conidiis oblongis, utrinque obtusis, triseptatis, sero erumpen-

tibus, latitudine sua triplo longioribus.

Hab. in cortice juniore crassioreque Carpini in Carolina au-

strali (RAVENEL).

2. Stilbospora thelebola Sacc. Mich. II. p. 542, F. ital. t. 1104. - 4042 Acervulis pustulatis, cortice prominulo velatis erumpentibusque, nigricantibus; conidiis cylindraceo-oblongis, rectis, curvulis, flexuosisve, $32-40 \approx 10-11$, utrinque rotundatis, 3-5-septatis, ad septa haud constrictis, olivaceo-fuligineis; basidiis conidio brevioribus, acicularibus, hyalinis.

Hab. in ramulis Alni glutinosæ, socia Melanconide thele-

bolâ, cujus Stilbospora videtur status conidiophorus.

3. Stilbospora Kickxii West. Exs. n. 880 et II. Not. p. 32; fig. 6, 4043 Kickx Fl. cr. Fl. II, p. 81. — Pustulis sparsis, parum elevatis, obtusis, peridermium elevantibus et laciniatim findentibus; conidiis exacte piriformibus, basim versus 2-septatis et pallidioribus, loculo superiore maximo, fuligineo; basidiis conidio paullo brevioribus bacillaribus.

Hab. in ramis Betulæ albæ, Courtrai in Belgio. — Massariæ loricatæ st. conidicus.

4. Stilbospora modonia Sacc. Melanconidis modonia status conid. 4044 Fuck. Symb. myc. p. 189. — Acervulis majusculis, sub corticis epidermide nidulantibus, demum erumpentibus, olivaceo-fuscis; conidiis oblongo-ellipticis, rectis curvatisve, plerumque 6-septatis, fuscis, 50-58 ≈ 14.

Hab. in ramis emortuis Castaneæ vescæ in Rhenogovia.

5. Stilbospora angustata Pers. Syn. Fung. p. 96, Sacc. Fungi it. t. 4045 1103, Stilbospora macrosperma Fres. Beitr. tab. VII. f. 48-52. Sporidesmium angustatum. (Pers.) Corda in Sturm. tab. 22. — Acervulis diu tectis, nigro-brunneis, leniter elevatis, convexis, sæpe confluentibus; conidiis oblongo-cylindraceis, rectis utrinque obtusis, olivaceo-fuligineis, 3-septatis, ad septa leniter constrictis et sæpe strato hyalino obvolutis, 35-45-50 = 10-14; basidiis bacillaribus conidium subæquantibus; paraphysibus cylindraceis, apice subclavatis, 100-150 = 1-2 immixtis.

Hab. in ramis Carpini Betuli nec non, sec. auctores, Corni sanguineæ, Fagi in Italia bor., Gallia, Belgio, Germania. — Adest forma in cortice Eucalypti in Amer. bor. Forma carpinea sistit st. conidicum Pseudovalsæ macrosporæ.

Stilbospora macrosperma Pers. Syn. p. 96, et Disp. fung. p. 14, 4046
 t. III. f. 13. Sporidesmium macrospermum Corda in Sturm. t.
 21. — Acervulis subcutaneis, atris, dein prominulis et erumpentibus; conidiis oblongo-ellipsoideis, 4-septatis, vix constrictis, pallide fuligineis.

Hab. in ramis corticatis Quercus etc. in Germania et Britannia, in cortice Alni glutinosæ, Coimbra in Lusitania. — Stilbospora macrosperma Fresen., Rabenh. F. Eur., Thum. et Wint. Exs. ad Stilb. angustatam referenda est; hinc dubium est, an revera ab hac distinguenda sit, etsi Corda l. c. pinxerit conidia multo crassiora et breviora in Stilb. macrosperma quam in Stilb. angustata. Differentia ab ætate forte pendet.

7. Stilbospora quadriseptața Schw. Syn. Am. bor. n. 2083. — Acervulis primum sub epidermide inde varioloso-bullata effusis, sporodochio spurio nigro centrali, demum prominentibus et circum circa sub epidermide et in ea spargentibus magnam copiam conidiorum subconglutinatorum; conidiis oblongis, fuligineis, semipellucidis, elongato-quadriseptatis aut quasi ex quatuor globulis internis conformatis.

Hab. in epidermide majorum ramorum et trunci Platani occidentalis cæsi, nec jam corrupti, Bethlehem Amer. bor.

8. Stilbospora multiseptata Schw. Syn. Amer. bor. n. 2984. — Acer- 4048 vulis in cortice satis effusis, parum elevatis; sporodochio peritheciato (?), cortice ime ad lignum usque immerso, subsphæriæmorpho et quasi evacuato, post effluxum conidiorum; conidiis magnis lineari-subulatis, utrinque incurvis acuminatis, multiseptatis et lignum aut corticem inquinantibus, ceterum aterrimis, subpellucidis.

Hab. in ramis querneis prope Nazareth Amer. bor.

9. Stilhospora Staphyleæ Schw. Syn. Amer. bor. n. 2985. — Acer- 4049 vulis minoribus, rotundatis, nidulantibus sub epidermide elevata; demum rima dehiscentibus; conidiis cano-fuscis, subpellucidis, elongato-ellipticis, utrinque subacutis, multiseptatis; acervulis ceterum gregarie sparsis, numerosis.

Hab. frequens in junioribus ramulis Staphyleæ, Bethlehem (Schweinitz) et Staphyleæ trifoliæ, Helderberg Mount. (Peck).

10. Stilbospora pinicola B. et C. North Amer. Fungi n. 478. — Acer- 4050 vulis oblongis erumpentibus; conidiis oblongis, utrinque obtusis triseptatis, articulis uninucleatis, leviter constrictis, $20 \approx 5-6$.

Hab. in dorso foliorum Pini in Amer. bor.

11. Stilbospora Cacti Lév. Ann. Sc. nat. 1845, p. 66. — Acervulis 4051 (peritheciis Lév.) subglobosis epidermide rupta cinctis; conidiis elliptico-elongatis, 3-septatis, dein effluentibus et maculas minutas atras formantibus.

Hab, ad caules Cacti peruviani in Peruvia.

12. Stilbospora fumosa Fée Ess. Crypt. ecorc. pag. 24. — Conidiis 4052 (thecis Fée) rotundo-deformibus, aterrimis dein effluentibus et matricem late fœdantibus.

Hab. in epidermide Cinchonæ floribundæ in officinis servatæ. — «Quum de septis nulla mentio fiat, et conidia subrotunda dicantur an potius Melanconii species?».

13. Stilbospora utriculosa Schwabe Fl. Anhalt. II. p. 353, t. VI. f. 4053
17. — Acervulis convexis v. planiusculis, plerumque oblongis; conidiis magnis, obovatis, 3-septatis, loculo supremo maximo, hyalino-obvolutis.

Hab. in ramis emortuis Pini Strobi, Anhalt Germaniæ.

14. Stilhospora militaris Curr. Microsc. Journ. IV. t. 11, f. 4-9. — 4054 Teste Tul. Carp. II. p. 242-243 est fungus fictitius ex Asterosporio et Thyrsidio ortus.

CORYNEUM Nees Syst. d. Pilze p. 34, Sacc. Mich. II. p. 11. (Etym. coryne clava, ob formam conidiorum frequentem) Seimalosporium Corda. — Acervuli disciformes v. pulvinati, subcutaneo-erumpentes, atri, compacti. Conidia oblonga v. fusoidea, 2-pluriseptata, fuliginea, numquam cirrose expulsa; basidia bacillaria longitudine varia.

I. Species cauli-ramicolæ.

1. Coryneum microstictoides Sacc. et Penz. in Sacc. Mich. II. p. 633. 4055 — Acervulis gregariis, oblongis, 1 mill. long. ¹/₂ mill. cr.. epidermide demum fissa velatis, atris, vix tumidulis; conidiis ovato-oblongis, 14 ≈ 5-6, utrinque obtusiusculis, 14 ≈ 5-6, 3-septatis, ad septa vix constrictis, totis fuligineis; basidiis bacillaribus, hyalinis, fasciculatis, 18-20 ≈ 1,5-2.

IIab. in caulibus gelu necatis Pæoniarum cultarum Lyon Galliæ (Tuerry). — A Cor. microsticto conidiis totis concoloribus

præcipue distinguendum.

2. Coryneum gummiparum Oud. in Hedw. 1883, p. 131. — Acervu-4056 lis minutissimis, punctiformibus, atris, gregarie crescentibus; conidiis e pulvinulo parenchymatoso fuscescente oriundis, breviuscule stipitatis, oblongis vel oblongo-obovatis, separatim examinatis dilute fuligineo-olivascentibus, 3-septatis, ad septa minime constrictis, 14 = 6, loculis omnibus æqualibus et æquicoloratis; basidiis hyalinis, conidio (ut videtur) brevioribus, vulgo non rite distinguendis; paraphysibus nullis.

Hab. in rimis gummosis ramorum Acaciæ cujusdam gummi-

feræ ex Senegal et Arabia.

3. Coryneum Corni-albæ (Roum.) Sacc. in Mich. II. p. 355. F. it. t. 4057 1113. Sphæria Corni-albæ Roum. F. Gall. n. 571. — Acervulis gregariis, innato-erumpentibus, pulvinatis, ½-1 mill. diam., denique epidermide rupta cinctis; conidiis oblongis; utrinque acutiusculis, 20-22 = 9, triseptatis, non constrictis, totis fuligineis, basidiis filiformibus 18-20 = 1 suffultis.

Hab. in ramis Corni albæ emortuis, Perpignan in Gallia (Roumeguère).

4. Coryneum Beyerinckii Oud. in Hedw. 1883, p. 115. — Acervulis 4058 minutissimis, punctiformibus, atris, gregarie crescentibus; conidiis e pulvinulo parenchymatoso fuscescente oriundis, stipitatis, oblongo-obovatis, dilute olivascentibus, vulgo 3-septatis, ad altitudinem septorum minime constrictis, loculis omnibus æqualibus aut exti-

mis paullo minoribus, subinde colore expertibus; basidiis cylindraceis aut inferne paullulum incrassatis, colore expertibus, hyalinis, conidia longitudine fere æquantibus.

Hab. in trunco ramisque Amygdalearum in Neerlandia fluxum gummosum provocans (Beyerinek).

5. Coryneum microstictum B. et Br. Not. of Br. Fung. n. 451, Spo-4059 rocadus rosicola Rabenh. sec. Fuck., Seimatosporium Rosæ Corda in Sturm. tab. 40 (mala). — Tectum; stromate obsoleto; conidiis subpiriformibus v. oblongis, 15-17 ≈ 5-6,5, apice obtusiusculis, 4-locularibus, loculo infimo subhyalino, ceteris melleis; basidiis bacillaribus, 20-25 ≈ 1,5, hyalinis.

Hab. in ramis languidis v. emortuis Rosæ, Rubi, Kerriæ, Cratægi, Oxyacanthæ, Arbuti, Vitis in Italia, Gallia, Britannia, Germania, Austria, Amer. bor., Algeria. — β . laurinum. Differt conidiis brevioribus, nempe $12-15 \approx 5-6$, fuligineis, loculo infimo pallidiore, stipite breviore, nempe $15 \approx 1^{1}/_{2}$, hyalino; acervulis hypophyllis, minutis, dein erumpentibus. In foliis Lauri nobilis in Gallia (Brunaud).

6. Coryneum Rubi (Corda) Sacc. Didymosporium Rubi Corda Icon. 4060 fung. I. p. 7, fig. 107. — Acervulis elongatis, epidermide tectis, dein erumpentibus, atris, pulveraceis; conidiis ovoideis 2-septatis, non constrictis fuscis; hypostromate spurio corneo, atro.

Hab. in ramulis Rubi prope Reichenberg Bohemiæ.

7. Coryneum impressum Pr. F. Hoyersw. n. 166. — Acervulis erum-4031 pentibus convexis, medio depressis, atris; stromate celluloso albo; basidiis pedicelliformibus albis, simplicibus vel ramosis, septatis; conidiis luteo-fuscis, oblongis, diaphanis, magnis.

Hab. in cortice Calycanthi floridi, Hoyerswerda.

8. Coryneum Negundinis B. et C. North Amer. Fungi n. 480. — 4062 Acervulis minutissimis; conidiis brevibus, biseptatis e pedicellis crassiusculis furcatis reticulatisque oriundis, latitudine sua duplo longioribus, pallidis, utrinque attenuatis.

Hab. in ramis Aceris Negundinis in Carolina superiore Americæ borealis.

9. Coryneum Tecomæ Sacc. Myc. Ven. Spec. p. 190, t. XVII. f. 20. 4063 21. — Acervulis planiusculis, subrotundis v. angulosis, ¹/₄ mill. d., epidermide laciniatim rupta cinctis; conidiis fusiformibus 5-septatis, loculis extimis acuminatis, hyalinis, ceteris obscure ferrugineis, longe hyalino-stipitatis, 25 ≈ 10, (sine stipite).

Hab. in ramulis Tecomæ radicantis, Padova in Italia bor.

— Affine Coryneo microsticto B. et Br. sed conidia 5-septata non 2-3-septata; habitus Hendersoniæ, sed perithecium genuinum nullum.

10. Coryneum Vaccinii Fuck. Symb. myc. App. II. p. 81. — Acervulis 4064 gregariis, minutissimis, primo epidermide tectis, demum liberis, hemisphæricis, atro-olivaceis; conidiis lanceolato-subclavatis; 3-septatis, flavis, longissime pedicellatis, 16 ≈ 4.

Hab. in ramulis siccis Vaccinii Myrtilli pr. Neuchatel

Helvetiæ (Morthier).

11. Coryneum affine Sacc. in Mich. II. p. 634. — Acervulis subcutaneo-erumpentibus, globosis v. oblongis, aterrimis, gregariis; conidiis ellipsoideis, utrinque obtusiusculis, 20-22 = 7, triseptatis, ad septa haud v. vix constrictis, fuligineis, loculis extimis hyalinis; basidiis filiformibus, hyalinis conidium duplum æquantibus.

Hab. in caulibus emortuis Rumicis, Rouen Galliæ (Malbranche). — Ab affini C.-microsticto differt conidiis majoribus, utrin-

que hyalinis, etc.

12. Coryneum macrospermum B. et Br. Ann. N. H. n. 941, t. 15, 4066 f. 12. — Stromate minuto, pulvinato, celluloso; acervulis sparsis, subsuperficialibus; basidiis sursum furcatis; conidiis subcylindraceis, 4-5-septatis, articulis extimis hyalinis.

Hab. in palis Alni pr. Batheaston Angliæ. — Didymosporium macrospermum Corda rem diversam, monente quoque Fresenio, sistere videtur.

13. Coryneum intermedium Sacc. Mich. I. p. 91. Fungi ital. t. 81. — 4067 Acervulis primo epidermide tectis, dein erumpentibus, numquam elevatis, aterrimis, laxiusculis; conidiis e strato hymenico crassiusculo lutescente oriundis longe stipitatis, oblongo-fusoideis, 28-32 \(\pi 10-11\), 6-locularibus, loculis extimis minoribus, acutis, hyalinis, ceteris fuligineis; stipitibus fasciculatis, filiformibus, $70 \approx 1^3/4$, hyalinis.

Hab. in cortice Ulmi campestris, Vittorio; et in ramis corticatis Populi Tremulæ, Conegliano in Ital. bor. (Spegazzini).

— Ob fabricam conidiorum Coryneum Kunzei Corda in memoriam revocat, a quo conidiis dimidio et ultra minoribus statim dignoscitur. A Cor. Tecomæ Sacc. stipitibus multo longioribus, acervulis compactioribus etc. recedit.

14. Coryneum compactum B. et Br. Ann. N. H. n. 449. — Acervu- 4068 lis minutis, initio epidermide tectis, dein nudis; stromate convexo; conidiis stipitatis late fusiformibus, leniter obtusis, 4-5-septatis,

nucleatis; nucleis concatenatis.

Hab. in ramis emortuis Ulmi in Britannia, et Betulæ rubræ in Carolina Amer. bor.

15. Coryneum pustulatum Peck 33 Rep. St. Mus. p. 26, t. I. fig. 1-3. 4069 - Acervulis pustuliformibus, cortice immersis, epidermide elevata demum leniter fissa tectis; conidiis longis, subclavatis vel subfusiformibus, coloratis, 6-7-septatis, curvatis nucleatis, 62-75 = 12-14; basidiis brevibus.

Hab. in ramis emortuis Quercus et Castaneæ, Sandlake in America boreali.

16. Coryneum umbonatum Nees Syst. d. Pilze p. 34, f. 31, Tul. Car. 4070 pol. II. t. XV. f. 9, Sacc. F. it. t. 1109, Steganosporium elevatum Riess Bot. Zeit. 1853, tab. 3, fig. 24-27. — Acervulis erumpentibus, nigris, disciformibus, centro umbonatis; stromate cellulari, brunneo; conidiis late fusoideis, fuligineis, anguloso-nucleatis, $42-50 \approx 16-18$, 5-8-septatis, loculis extimis hyalinis; basidiis bacillaribus, subinde furcatis, hyalinis.

Hab. in ramis dejectis Ulmi, Carpini, Quercus in Italia, Germania, Britannia. - Stat. conidicus Pseudovalsæ umbonatæ. — β. Prunorum Sacc. Relig. Lib. Myc. IV. n. 179. Conidiis late fusoideis, $40-45 \approx 16$, 7-9-septatis, non constrictis, ochraceo-fuscis, vertice apiculato-subhyalinis. In ramis Prunorum in Arduennis.

17. Coryneum pulvinatum Kunze et Schm. Myk. Heft. I. t. II. f. 19, 4071 Bonord. Handb. t. 12, f. 240. — Acervulis rotundis, patellaribus, convexis, dein erumpentibus et peridermio cinctis, atris; conidiis fusoideo-oblongis, obtusis, 4-5-septatis, leniter constrictis, brunneis; basidiis cylindraceis, hyalinis suffultis, 75 μ. longis.

Hab. in ramulis dejectis Ulmi, Tiliæ, Aceris in Germania et Britannia, et in ramis Tiliæ americanæ in Amer. bor.

18. Coryneum salicinum (Corda) Sacc. Didymosporium salicinum 4072 Corda Icon. fung. I. p. 7. fig. 108. — Acervulis hypodermicis, atris, epidermide dein stellatim se rumpente denudatis; conidiis fuscis 10-12 µ. longis, 3-septatis, non constrictis; hypostromate irregulari spurio, corneo, atro.

Hab. in ramulis Salicum frigore necatis prope Reichenberg Bohemiæ.

19. Coryneum maculicolum Fuck. Symb. myc. p. 372. — Acervulis 4073 in macula expallescente, erumpentibus, epidermide 2-3-fissa circumdatis, oblongis, atris; conidiis longe pedicellatis, oblongis, triseptatis, flavis.

Hab. in ramis siccis adhuc pendulis Salicis auritæ in Rhenogovia.

20. Corvneum Kunzei Corda Ic. fung. IV. p. 46, t. 10, f. 131, Sacc. F. 4074 it. t. 1110, C. disciforme Nees, sec. Tul. et Kickx, forte partim tan. tum, nec Corda. - Acervulis disciformibus, erumpentibus, nigris: conidiis clavato-fusoideis, curvulis, 60-70 = 12-14, 6-septatis, non constrictis, 7-guttulatis, olivaceo-fuscis, apice subobliquo obtusiusculo pallidioribus; basidiis filiformibus, subseptatis, 120 = 3-4, hyalinis.

Hab. in ramis corticatis Quercus, Fagi, Betulæ in Italia. Britannia, Gallia, Pensylvania in Amer. bor. - Stat. conid. Pseudovalsæ longipedis. - \beta. Castaneæ Sacc. Reliq. myc. Lib. IV. n. 180 (Steganosporium Castanea Lib. ined.): conidiis longe stipitatis fusoideis, deorsum tenuatis, sub-5-septatis, 50-52 = 10-12, fuscis, vertice obtusiusculo subhyalino. In cortice Castaneæ in Arduennis.

21. Coryneum disciforme Kunze et Schm. Mykol. Hefte I. p. 76, t. II. 4075 f. 18, Oudem. Mat. Myc. Neerl. II. p. 27, t. IX. f. 13. - Acervulis disciformibus, applanatis; conidiis clavatis, deorsum attenuatis, apice obtusiusculis, 5-7-septatis, non constrictis, cuboideo-nucleatis, æqualiter fuligineis, 50-60 = 14; basidiis filiformibus, conidium superantibus, continuis, paraphysibus intermixtis.

Hab. in ramulis Tiliæ, Quercus et Betulæ (?) in Germania. Britannia, Hollandia et Lusitania. — A C. Kunzei sec. icon. Oudem. l. c. differre videtur conidiis obtusioribus æqualiter coloratis, paraphysibus et basidiis continuis. — Var. β. ellipticum B. et Br. Ann. N. H. n. 450: acervulis pulvinatis, transverse erumpentibus, majusculis, crassis, intus albidis; basidiis arcte fasciculatis; conidiis fusoideis, multiseptatis, leniter constrictis, loculis transverse 2-guttulatis. In truncis Betulæ in Britannia et America boreali.

22. Coryneum Notarisianum Sacc. Coryneum disciforme Corda Ic. 4076 fung. III. pag. 36, fig. 91, Tul. Carp. II. tab. XVI. fig. 1-8, nec Kunze et Schm. Stilbospora affinis De Not. Sfer. ital. t. 53, f. 7. - Acervulis erumpentibus discoideis, angulatis v. oblongis, atris, hypostromate celluloso-carnoso, fusco; conidiis subclavatis, luteofuscis, 45-50 μ . longis, 5-6-septatis; basidiis simplicibus v. furcatis conidio plerumque longioribus.

Hab. in ramis dejectis Betulæ in Bohemia, Gallia et Italia, et Quercus in Lusitania. - Conidia, teste Corda, parce subinde longitrorsum divisa, quæ ita non pinguntur a cl. Tulasneo et De Notaris. - Status conid. sine dubio Pseudovalsæ lanciformis.

23. Coryneum fusarioides Sacc. Mich. II. p. 120, F. it. t. 1112. — Acer- 4077 vulis gregariis erumpentibus, dein pulvinatis varieque tuberculatis, aterrimis, 100-200 μ. diam.; conidiis fusoideo-falcatis, 45 ≈ 6, utrinque acutis, 7-8-septatis, 7-guttulatis, fumosis; loculis extimis hyalinis; basidiis filiformibus, subcoalitis, fuligineis.

Hab. in cortice Populi fastigiatæ pr. Rouen Galliæ (Leten-DRE). — Videretur forma malanconiea Henders. fusarioidis Sacc.

24. Coryneum decipiens B. et C. North Amer. Fungi n. 479. — Acer- 4708 vulis pustuliformibus, minutis, erumpentibus; conidiis oblongis utrinque obtusis, triseptatis, longe pedicellatis, 15 \(\preceq 3.

Hab. in corticibus New-England in Amer. bor. — β . Castaneæ B. et C. l. c. conidiis deorsum attenuatis; pedicellis brevioribus.

25. Coryneum oligosporum Corda Icon. Fung. V. p. 81, t. IX. f. 73. 4079 — Erumpens, convexiusculum, impressum vel tortuosum, atro-fuscum; stromate aterrimo, duro; conidiis clavatis, luteo-fuscis, subsessilibus, 60 v. longis, 6-10-septatis, non constrictis, fusco-brunneis; basidiis minutis, abbreviatis.

Hab. in ramis emortuis Coryli prope Prag Bohemiæ.

26. Coryneum confluens Nees jun. in Kunze Myk. Heft. II. p. 66. — 4080 Acervulis subrotundis, gregariis, mediotenus elevatis, ambitu pulverulentis, nigris; conidiis oblongis obtusis, obsolete 3-septatis, subcoloratis; basidiis tenerrimis.

Hab. ad ramos dejectos Alni rarius in Germania.

27. Coryneum brachyurum Link. Sp. p. Fungi II. p. 124. — Acer- 4081 vulis convexis, atris; conidiis ovoideis; basidiis crassiusculis brevibus; paraphysibus intermixtis.

 $\it Hab.$ ad ramos dejectos in agro berolinensi (Link.) — $\it C.~um-bonato$ affine dicitur.

28. Coryneum depressum Kunze Myk. Heft. II. p. 75, t. II. f. 17. — 4082 Acervulis depressis, atris, epidermide cinctis; conidiis ovato-oblongis, 4-5-septatis, fuscis, apice rotundatis; basidiis filiformibus conidio brevioribus.

Hab. in ramis dejectis quercinis in agro berolinensi. — Affine dicitur C. brachyuro. Huc cl. Auerswald (Bot. Zeit. 1851, p. 180) dubitanter ducit suam Placentariam depressam, cui tamen tribuit conidia continua.

29. Coryneum heterosporum Pr. Fungi Hoyersw. n. 58. — Acervu- 4083 lis erumpentibus, convexis, impressis, atro-fuscis; stromate duro, fusco; conidiis fuscis, aggregatis, majoribus, clavatis, minoribus obovatis, sessilibus, cellulis subquadratis.

Hab. in ramis dejectis, Hoyerswerda.

30. Coryneum Smilacis Schw. Syn. Amer. bor. n. 3091. — Acer. 4084 vulis sparsis tectis sub epidermide elevata, tantum poro aut rima centrali apertis; disco minuto, tum conspicuo; conidiis nigris v. fuligineis, pedicellatis, oblongis aut subcylindricis, septatis, demum effluentibus.

Hab. in epidermide Smilacis rotundifoliæ, Bethlehem Americæ borealis.

II. Species foliicole.

31 Coryneum foliicolum Fuck. Symb. myc. p. 372, Sacc. F. it. t. 1105. 4085
- Maculis epiphyllis, ochraceis, vagis; acervulis punctiformibus,
deplanatis, erumpentibus; conidiis ellipsoideo-oblongis, 17 ≈ 6-7,
3-septatis, ad septa leniter constrictis, olivaceis, loculo infimo subhyalino, stipitibus filiformibus, 15-20 ≈ 1¹/4, hyalinis suffultis.

Hab. in foliis Quercus, Cratægi Oxyacanthæ in Germania; in foliis Rubi fruticosi, Conegliano in Ital. bor.; in foliis Rubi discoloris en la Roca del Riachuelo Reipubl. Ar-

gentinæ.

32. Coryneum pestalozzioides Sacc. Mich. I. p. 91, Fungi Ital. p. 82. 4086 — Acervulis minutis, maculas foliorum rufescentes degentibus, erumpentibus, minutis, aterrimis; conidiis ellipsoideis, 9 ≈ 5, 3-septatis; loculis 3 interioribus fuscis, extimis obtusiusculis, hyalinis; stipitibus persistentibus, filiformibus, 12 ≈ 1, hyalinis.

Hab. in foliis languidis Cratægi Oxyacanthæ in silva Montello Italiæ borealis. — A Cor. foliicolo Fuck. differt conidiis fere dimidio minoribus, brevius stipitatis etc. A Sporodesmio epiphyllo Lév. et Hendersonia foliorum Fuck. longius distat.

33. Coryneum concolor Penz. in Sacc. Mich. II. p. 452, F. it. t. 1189. 4087 — Acervulis in macula arida, fusco-cincta insidentibus, sparsis, minimis, punctiformibus, prorumpentibus; stromate depresso; basidiis brevibus, hyalinis, $10-12 \approx 3-3.5$; conidiis oblongo-ellipticis, utrinque rotundatis, triseptatis, ad septa modice constrictis, loculis omnibus concoloribus, brunneo-fuligineis, $10-11 \approx 3.5-4.5$.

Hab. in foliis vivis Citrorum in frigidariis. Stra, Cattajo in prov. patavina Italiæ bor.

34. Coryneum Rhododendri Schw. Syn. Amer. bor. n. 3090. — Acer- 4088 vulis minutis, sparsis, per epidermidem folii prorumpentibus, convexulis, atris, intus albescentibus; conidiis dispersis, demum nu-

diusculis, ovalibus aut piriformibus; pedicellis breviusculis, crassis, septatis.

Hab. passim in foliis Rhododendri maximi, Bethlehem Americæ borealis.

35. Coryneum triseptatum Peck 27 Rep. p. 102. — Maculis latis, 4089 brunneis vel cinereis; stromate obsoleto; acervulis sparsis, minutis, erumpentibus, nigris; conidiis oblongo-piriformibus, $^{15-18}$ μ . longis, initio hyalinis et biseptatis, dein 3-septatis; loculis extimis hyalinis, ceteris coloratis: basidiis conidio æquilongis et ab eo facile decedentibus.

Hab. in foliis vivis Rhododendri maximi, Forestburgh Amer. bor. — A Coryneo Rhododendri probe diversum videtur.

36. Coryneum epiphyllum Schw. Syn. Amer. bor. n. 3092. — Acer- 4090 vulis obliteratis, parvis, irregularibus, dense aggregatis, in pagina aversa; conidiis immersis, ovato-cylindricis, subfalcatis, septatis, fuscis; aqua infusa apparent pedicelli longiusculi, pellucidi, pluribus versus basim coalitis.

Hab. vulgare in foliis Castaneis, sparsim et nigrificans, Bethlehem Amer. bor.

37. Coryneum effiguratum Schw. Syn. Amer. bor. n. 3093. — Acer- 4091 vulis atris difformibus aut stellatim confluentibus, subeffusis, applanatis; conidiis piriformibus, multiseptatis, brevissime pedicellatis.

Hab. subtectum sub villositate paginæ aversæ foliorum Quercus macropodæ, Nazareth Amer. bor.

38. Coryneum juniperinum Ellis Torr. bot. Club. 1882, pag. 134. — 4092 Acervulis nigris, sphæriæformibus, sparsis vel aggregatis, velutinis; conidiis vermiformi-cylindraceis, 6-septatis, fusco-brunneis, 35-40 \approx 6-8, basidiis brevibus, crassis suffultis.

Hab. in foliis vivis Juniperi communis, Decorah, Jowa, in America boreali.

39. Coryneum dubium Speg. Fungi Arg. pug. II. p. 26. — Acervulis 4093 sparsis, epiphyllis, conico-hemisphæricis, erumpentibus, atro-fuligineis, minutissimis, 70-80 μ . diam.; conidiis fusoideo-elongatis, triseptatis, ad septa vix constrictis, loculo supremo elongato-acutato, 40-45 \approx 5-7, deorsum in pedicellum exilem, 20-25 \approx 1-1,5. elongatis, dilute olivaceis.

Hab. in frondibus emortuis Marchantiæ speciei cujusdam prope S. Josè de Flores Reip. Argentinæ:

- SCOLECOSPORIUM Lib. in Sacc. Mich. II. pag. 355 (Etym. scolecos anguis et spora). - Acervuli subcutaneo-erumpentes, pulvinati compacti, atri. Conidia fusoidea, fuliginea, pluriseptata, apice in rostrum curvulum pallidius attenuata, basidiis brevibus suffulta. - A Coryneo differt conidiis hvalino-rostratis.
- 1. Scolecosporium Fagi Lib. in Sacc. Mich. II. p. 355, Fungi ital. 4094 t. 1091. Coryneum macrosporum Berk. Engl. Fl. V. pag. 355. Sporidesmium vermiforme Riess in Fres. Beitr. II. p. 51, t. VI. f. 56-58. — Acervulis pulvinatis, depressis, subcutaneo-erumpentibus, dein peridermio cinctis, atris, intus albidis magnitudine et forma variis; conidiis fusoideis, 100-190 = 12-15, fuligineis, sursum incurvo-attenuatis seu rostratis, subhyalinis, 7-12-septatis guttulatisque, breve crassiuscule stipitatis, loculo infimo pallidiore,

Hab. in cortice fagineo, socià Massaria macrosperma, cujus est stat. conidioph., in Gallia, Germania, Italia, Britannia.

- ASTEROSPORIUM Kunze in Flora 1819, p. 225 (Etym. aster et spora). - Acervuli pulvinati, erumpentes, atri. Conidia stellato-lobata, non concatenata, fusca, radiis seu lobis sursum attenuatis. pluriseptatis. Basidia bacillaria, longiuscula.
- 1. Asterosporium Hoffmanni Kunze in Flora 1819, I. pag. 225, Fres. 4095 Beitr. tab. 5, fig. 10-13, Sacc. F. it. tab. 1102. - Acervulis pustuliformibus, leniter prominulis, obtusis, sæpe inæqualibus, epidermide elevata, dein fissa tectis; stromate albo-luteo, floccoso; conidiis tri-quadri-radiatis, radiis conicis, 25 = 16, triseptatis, fuligineis; basidiis bacillaribus, continuis, hyalinis, 35-45 = 2.

Hab. in cortice Fagi, Betulæ, in Germania, Italia, Belgio, Gallia, Britannia, Carolina in Amer. bor. — Icon Fresenii I. c. forte conidia germinantia refert.

2. Asterosporium betulinum Peck 33. Rep. St. Mus. p. 26, t. I. f. 4-5. 4096 - Acervulis pustulatis, erumpentibus, disco nigro orbiculari; stromate filamentoso; conidiis tri-quadri-radiatis dilute coloratis, radiis oblongo-ovatis vel elongato-conicis, subacuminatis, basi leniter coarctatis, tri-quadri-septatis, 20-37 = 8,7-12, basi leniter angustatis, loculis uninucleatis, terminali pallidiore; basidiis filiformibus, conidio longioribus.

Hab. in ramulis Betulæ luteæ, Quaker street Amer. bor.

SEIRIDIUM Nees Syst. d. Pilze p. 22 (Etym. seira catena). - Acervuli subcutaneo-erumpentes, atri. Conidia oblonga, 2-pluriseptata, fuliginea, isthmis tenuato-filiformibus interjectis, concatenata.

1. Seiridium marginatum Nees Syst. d. Pilze p. 22, fig. 19, Hazsl. 4097 Sph. Ros. p. 214, fig. 23-26, Coryneum marginatum Fr. S. M. III. p. 473. — Acervulis planis, nigris, erumpentibus, dein epidermide cinctis; conidiis catenulatis oblongis, 3-septatis, haud constrictis, loculis 2 mediis fuligineis, extimis conicis, hyalinis in isthmos filiformes, conidia connectentes, abeuntibus; conidiis demum liberis et utrinque longe 1-aristatis, 20 = 6, aristis 25-30 = 1,5-2; hasidiis bacillaribus dense fasciculatis, conidium paullo superantibus.

Hab. in ramis corticatis Rosarum in Germania, Hungaria, Helvetia. — Coryneum marginatum Hazsl. l. c. h. e. Seiridium marginatum Fuck. ad Pestalozziam potius pertinet. Cfr.

2. Seiridium lignicolum (Corda) Sacc. Phragmotrichum lignicolum 4098 Corda Icon. II. p. 9, t. IX. f. 46. — Acervulis minutissimis, atris subimmersis; stromate granuloso, luteolo; basidiis ramosis, interstitiis seu isthmis filiformibus albis; conidiis ovato-oblongis, triseptatis, 18 μ. longis; cellulis mediis fuscis, magnis, guttulis farctis, extremis apiculiformibus, albidis, diaphanis, vacuis.

Hab. in ligno ramorum emortuorum Salicis prope Prag Bohemiæ.

3. Seiridium Liquidambaris B. et C. North Amer. Fungi n. 483. — 4099 Pustulis epidermide arcte inclusis, apice carneo; conidiorum articulis ellipticis, breviusculis; isthmis cylindricis.

Hab. in ramis Liquidambaris in Carolina infer.

4. Seiridium Smilacis Schw. Syn. Amer. bor. n. 3085. — Acervulis 4100 longissime confluentibus, tamen multo minoribus, hec tam' incrassatis; conidiis cylindricis, atro-fuscis, obtusis; pedicellis longissimis contortis albis.

Hab. passim ex caulibus Smilacis caducæ et aliarum specierum erumpens, Bethlehem Amer. bor.

HYALOCERAS Dur. et Mont. Fl. Alg. p. 587 (Etym. hyalos vitrum et ceras cornu). — Acervuli convexi, erumpentes, minuti, atri. Conidia oblonga, 2-pluriseptata, fuliginea, apice basique incurvo-1-rostrata. Basidia bacillaria, hyalina. Est Dochmolopha, deficiente perithecio.

1. Hyaloceras Notarisii Dur. et Mont. Fl. Alg. p. 587, Stilbospora 4101 ceratospora De Not. Micr. it. dec. I. n. 10, fig. 10. Thum. Pilze d. Œlb. p. 28. — Acervulis sine ordine dispositis, minutis, atris, erumpentibus, alte convexis, stromate mucoso; conidiis oblongis,

 $14-15 \approx 4-5$, leniter curvatis, plerumque triseptatis ad septa non constrictis, fuligineo-fuscescentibus, utrinque corniculo setiformi, acuto, incurvo hyalino ornatis; basidiis bacillaribus conidio sesquilongioribus hyalinis.

Hab. in ramis siccis Oleæ europææ in Sardinia pr. Sassari.

PESTALOZZIA De Not. Micr. ital. Dec. II. n. IX (Etym. a medico et botanophilo italico Fort. Pestalozza). — Acervuli subcutanei, subinde demum erumpentes, disciformes v. pulvinati, atri. Conidia oblonga. 2-pluriseptata, colorata (saltem loculi medii), rarissime tota hyalina, apice hyalino-1-pluriciliata, basidiis filiformibus, hyalinis suffulta. — Genus speciebus forte plurimis duplicatis v. non satis distinctis obrutum, et ulterius inquirendum.

I. Eu-Pestalozzia.

Conidia, saltem ex parte, colorata, apice 2-pluri-aristata.

1. Pestalozzia decolorata Speg. F. Arg. Pug. I. p. 190. — Maculis 4102 orbicularibus, 2-5 mill. diam., arescentibus, determinatis, pallide melleis, areola augustissima, purpurascenti cinctis; acervulis punctiformibus, minutis, 80-90 μ. diam., subepidermicis, lenticularibus, atris; conidiis unicoloribus, dilute chlorino-fumosis, 25-30 ≈ 5, elongato-clavatis, 3-4-septatis, loculo supremo, obtuse rotundatis, tribus rostellis, 15-20 ≈ 0,7-0,8, hyalinis ornato, infimo subconico in pedicellum, 5-6 ≈ 0,5, brevem et filiformem desinente.

Hab. in foliis vivis Myrtaceæ cujusdam, in paludosis ultra

el Riachuelo Reip. Argentinæ.

2. **Pestalozzia inquinans** C. et Harkn. in Grevillea. — Acervulis epi- 4103 phyllis, sparsis, immersis, demum fisso-erumpentibus et circa marginem ob conidia effusa inquinantibus; conidiis clavatis, trilocularibus, fuscis, utrinque hyalino-apiculatis, superne setis tribus ornatis, infra breviter pedicellatis, $20 \approx 5$, (sine setis).

Hab. in foliis emortuis Eucalypti in California.

3. Pestalozzia disseminata Thüm. Contr. Myc. Lus. n. 578. — Acer-4104 vulis amphigenis sed plerumque epiphyllis, gregariis, numerosis, globoso-conicis, elevatis, primo tectis, demum liberis, aterrimis, sine macula et sine ordine dispositis; conidiis fusiformibus, plerumque rectis, utrinque cuspidatis, regularibus, quinqueseptatis, ad septa non vel vix visibiliter constrictis, vertice angustatis et ciliis tribus rectis, subulatis, hyalinis, 6 μ. longis ornatis, cellulis mediis dilu-

te griseo-fuscidulis, aliis hyalinis, basi in pedicellum brevissimum, caducum, hyalinum angustatis, $20-26 \approx 6-10$.

Hab. in foliis emortuis Eucalypti Globuli Labill. pr. Coimbra in Lusitania (Moller). — A Pestalozzia Eucalypti Thum. dispositione peritheciorum et conidiorum magnitudine bene et certe distincta!

4. Pestalozzia Eucalypti Thum. Contr. Myc. Lus. n. 579. — Acer- 4105 vulis epiphyllis, gregariis, submagnis, aterrimis, solitariis, non confluentibus, conico-emersis; conidiis fusoideis, quinquecellularibus, ad senta minime constrictulis, vertice basique angustatis acutatisve, basi in pedicellum 8 μ. longum, hyalinum rectum angustatis, cellulis mediis fusco-fuligineis, aliis parvulis, achrois, vertice ciliis tribus tenuibus 12 μ. longis ornatis, 16-18 ≈ 6.

Hab. ad folia arida subputrida vel etiam raro languida Eu-

calypti Globuli, Coimbra in Lusitania.

5. Pestalozzia Eugeniæ Thum. Contr. Myc. Lus. n. 342. — Acervu- 4106 lis epiphyllis, sparsis, solitariis, sæpe concentrice dispositis, lenticularibus, aterrimis in macula arescendo albida vel dilute grisea, orbiculari vel sinuosa, late fusco-purpureo-cincta; conidiis cylindrico-ellipticis, utrinque acutatis, quinquecellularibus, ad septa constrictis, cellulis mediis cinerescentibus, extimis hyalinis, ciliis in vertice tribus, achrois, 8 μ . long. ornatis, rectis vel leniter arcuatis, $22-24 \approx 6-8$.

Hab. in foliis vivis Eugeniæ Micheliæ in hortis Coimbra in Lusitania (Moller).

6. Pestalozzia Myricæ Ell. et Mart. Amer. nat. Jan. 70. — Maculis 4107 irregularibus, castaneo-brunneis, 5-10 mill. diam.; acervulis innato-erumpentibus, epiphyllis, 75 μ . diam.; conidiis ovoideis atrobrunneis, biseptatis, 9-12 μ . longis; loculis extimis, hyalinis, arista bipartita; basidiis deorsum attenuatis, $12 \approx 2$.

Hab. in foliis viventibus Myricæ ceriferæ, New Florida in America boreali.

7. Pestalozzia Genistæ Cocc. et Mor. F. Bol. II. n. 182, fig. II. — 4108 Acervulis sparsis, tectis, demum erumpentibus, rotundis oblongisve, atris, longitudinaliter dehiscentibus; conidiis fusoideis, 2-3-septatis, $17-20 \approx 3-4$, fuscis; loculis 2 extimis hyalinis; stipite hyalino $16-20 \mu$. longo; rostellis terminalibus duobus. divaricatis, inæqualiter longis (breviore $10-12 \mu$. long., longiore $15-18 \mu$.).

Hab. in ramis Genistæ germanicæ, Pontecchio in Italia.

8. Pestalozzia polychæta C. et Harkn. in Grevillea. — Sparsa, tecta de- 4109



mum elevata et stellato-fissa; acervulis mediocribus; conidiis clavatis, trilocularibus, fuscis, utrinque hyalino-apiculatis, superne 4-5-ciliatis, $25 \approx 8$ (sine setis).

Hab. in ramis Sarothamni in California.

9. Pestalozzia Acaciæ Thum. Contr. Mycol. Lusit. n. 576. — A-4110 cervulis hypophyllis, gregariis vel solitariis, pro ratione magnis, emersis, hemisphæricis, aterrimis in macula valde irregulari, sordide ochracea, late ferrugineo-marginata; conidiis rectis, raro leniter arcuatis, late fusoideis, quinqueseptatis, ad septa leniter constrictulis, utrinque angustato-acutatis, cellulis tribus mediis fuligineis, aliis achrois, breve et tenuiter hyalino-pedicellatis, vertice ciliis duobus vel tribus subrectis, hyalinis ornatis, 24 = 9-10.

Hab. in foliis vivis Acaciæ longifoliæ et Acaciæ sa-

lignæ Coimbra in Lusitania.

10, Pestalozzia Siliquastri Thum. Contr. Myc. Lus. n. 577. — Acer-4111 vulis epiphyllis, gregariis, submagnis, pustulæformibus, postremo elevatis; conidiis ejectis zona nigra circumdatis, nitido-atris, in macula irregulari, fusco-ferruginosa exarida et dilacerata; conidiis cylindrico-ellipticis, plerumque leniter arcuatulis, utrinque acutatis et basin in pedicellum hyalinum angustatis, vertice setis tribus achrois, curvatis ornatis, cellulis tribus mediis griseis vel dilute fusco-griseis, aliis hyalinis, $15-18 \approx 6.5$.

Hab. ad folia viva Cercidis Siliquastri, Choupal prope Coimbra in Lusitania.

11. Pestalozzia Rosæ West. Not. IV. p. 21 Kickx Fl. cr. Fl. II. p. 4112 79. — Acervulis minutis, albis, densiusculis, epidermide fissa cinctis; conidiis fusiformibus, 20-25 = 10, 3-septatis, loculo superiori hyalino, ceteris pallide brunneis; aristis, 2-3, divergentibus, conidium æquantibus.

Hab. in ramulis Rosarum in Belgio (WESTENDORP).

12. Pestalozzia Lauro-Cerasi West. Bull. Ac. Belg. II. Ser. t. XII. 4113 n. 7. — Acervulis hypophyllis, sparsis, nigris, immersis, leniter prominulis, epidermide dein fissa cinctis; conidiis brunneis, fusiformibus, apice truncatis, 2-septatis; loculis duobus superioribus majoribus et brunneis, inferiore minuto, hyalino, aristis 2 hyalinis, divergentibus.

Hab. in foliis emortuis Pruni Lauro-cerasi in Belgio.

13. Pestalozzia congesta B. et Br. F. of Ceyl. n. 805. — Acervu- 4114 lis congestis, prominulis, 1-2 mill. diam., brunneis; conidiis oblongis, uniseptatis.

Hab. in pagina inferiore foliorum Syzygii Jambolani, Peradeniya Ceylon. — «Si conidia vere l-septata, an novi generis typus?».

14. Pestalozzia longiseta Speg. in Sacc. Mich. I. p. 478. F. ital. t. 4115 1120. — Acervulis punctiformibus, lenticulari-subsphæroideis, primo tectis, dein erumpentibus, atris, 100-145 μ. diam., macula rufa nigro-cincta insidentibus; conidiis elliptico-fusoideis, utrinque acuminatis, 20 ≈ 8, 4-septatis, ad septa non vel vix constrictis, loculis tribus internis fuligineo-atris, quandoque 2 superioribus intensius coloratis, duobus autem extimis parvulis atque hyalinis, superiore tribus rostellis longissimis, 30-40 ≈ 1, ornato, inferiore pedicellum 5-15 ≈ 1 gerentibus.

Hab. ad folia viva vel languida Rubi cæsii, Susegana in Italia boreali.

15. Pestalozzia breviseta Sacc. Mich. I. p. 92, Fungi ital. tab. 84. 4116 — Acervulis minutis, maculas foliorum cinerescentes gregarie occupantibus, erumpentibus, atris; conidiis oblongis v. breve fusoideis, $25-26 \approx 7$, 4-septatis. loculis 3 interioribus fuligineis, extimis acutis cum setis stipiteque hyalinis; setis terminalibus ternis, filiformibus, brevibus, $8-10 \approx 1$, stipite filiformi, brevissimo, $3 \approx 1$.

Hab. in pagina inferiore foliorum Piri communis et Carpini Betuli, Selva Italiæ bor., rarius.

16. Pestalozzia Photiniæ Thüm. Contr. Funghi Litor. n. 320. — 4117 Acervulis epiphyllis, gregariis, primo epidermide velatis, demum liberatis, hemisphærico-lenticularibus, opaco-nigris in macula sordide fusco-ochracea, arescente, obscure fusco-cincta; conidiis elongato-ellipsoideis, quadriseptatis, pedicellatis, cellulis tribus inferioribus fuscis, cellula terminali hyalina, ad septa maxime constrictis, vertice ciliis tribus longis, curvis, filiformibus, hyalinis ornatis, 20-24 ≈ 7-8.

Hab. in foliis vivis Photiniæ serrulatæ, Pola Istriæ.

17. Pestalozzia stellata B. et C. North Amer. Fungi n. 489. — Acer- 4118 vulis stellatis e macula alba oriundis; conidiis subdoliiformibus biseptatis, brevibus; basidiis sursum attenuatis, conidium subæquantibus.

Hab. in foliis Ilicis opacæ, Quercus tinctoriæ, in Carolina Amer. bor. — In forma Quercus deest macula alba.

18. Pestalozzia annulata B. et C. North Amer. Fungi n. 490. — 4119 Acervulis punctiformibus e macula alba fusco-cincta oriundis; epidermide, centro excepto, tectis, nigro-annulatis; conidiis fusifor

Melanconieæ, Phragmosporæ, Pestalozzia.

788 mibus 2-3-septatis, 20 u. longis, basidiis conidium æquantibus deorsum attenuatis.

Hab. in foliis Ilicis, Alabama Amer. bor.

19. Pestalozzia Ilicis West. Bull. Acad. Belg. II. ser. VII. n. 5 cum 4120 icone. - Acervulis epi- vel hypophyllis, nigris, sparsis, immersis, distincte prominulis, epidermidem dein fissam elevantibus; conidiis fusiformibus, 3-septatis, loculis extimis hvalinis, intermediis brunneis; aristis 2-3, hyalinis, divergentibus conidio longioribus.

Hab. in foliis Ilicis Aquifolii in Belgio (A. P. DUMONT).

20. Pestalozzia Calabæ West. 5 Not. Hypox, Belg. p. 13. — Acer- 4121 vulis hypophyllis, sparsis, nigris, immersis epidermide pallida dein pertusa tectis; conidiis piriformibus, elongatis, 30 = 10, 3-septatis, loculis superioribus brunneis, infero hyalino; setulis duabus, hyalinis, circ. 10 μ . longis.

Hab. in foliis Calophylli Calabæ in calidario culti, Bruxelles in Belgio.

21. Pestalozzia rostrata Zab. in Peck Rep. St. Mus. New York 4122 Pestalozzia insidenti habitu similis; conidiis angustioribus 25 u. long., arista basilari carentibus, loculis mediis quatuor coloratis.

Hab. in cortice Louiceræ et Mali, New Baltimore Amer. bor. (Zabriskie). - Pestalozzice concentricce fructificatione peraffinis, sed habitu et habitatione diversa.

22. Pestalozzia Evonymi Vize in Grevillea (ex errore sub nom. P. 4123 Planimi). — Acervulis atris, emergentibus, epidermidem radiatofindentibus; conidiis fusiformibus, 3-4-septatis, quadri-aristatis, atro-brunneis, 50-60 = 10; pedicellis longe attenuatis, hyalinis; aristis 45-55 u. longis.

Hab. in ramis et foliis emortuis Evonymi in California (Har-KNESS). — a Stirpem nullam sub Planimi nomine inveni, hinc (cum matrix sit Evonymus) Evonymi pro Planimi legendum censeo».

23. Pestalozzia neglecta Thüm. Contr. Myc. Lusit. n. 343. - Acer- 4124 vulis epiphyllis, numerosis, parvis, subglobulosis, liberis, atris, gregariis; conidiis fusiformibus, brevipedicellatis, utrinque angustatoacutatulis, quinque-cellularibus, cellulis mediis tribus fuscis, magninucleatis, cellulis extremis hyalinis, vertice cum ciliis tribus achrois, brevibus, curvatis, ornatis, 25 = 6.

Hab. in foliis emortuis Evonymi japonici, Coimbra in Lu-

24. Pestalozzia brevipes Cooke in Grevillea. — Acervulis sparsis, 4125

minutis, tectis, apice perforatis; conidiis subsessilibus, ellipticis, biseptatis, pallide fuscis, 3-4-aristatis, $18 \approx 7.5$.

Hab. in petiolis Aralia spinosa, Gainesville, Florida.

25. Pestalozzia microspora Speg. Fungi Arg. Pug. II. p. 37. — Acer-4126 vulis amphigenis, laxe gregariis, conico-hemisphæricis, atris, erumpentibus, $^{1}/_{4}$ - $^{1}/_{3}$ mill. diam.; conidiis elliptico-fusoideis, $18-20 \approx 5-6$, 4-septatis, loculis tribus interioribus fuligineis, duobus extimis hyalinis, apice 3-5 setulis hyalinis, $10-15 \approx ^{1}/_{2}$ ornatis, deorsum pedicello parvulo $5 \approx 1$ suffultis.

Hab. in foliis emortuis dejectis Hederæ Helicis in horto del Collegio Argentino, Buenos Aires Amer. merid. — An varietas P. funereæ Desm.?

26. Pestalozzia Thümenii Speg. in Thüm. Pilze des Weinstockes p. 4127

14. — Acervulis oblongo-depressis, primo epidermidem tumefacientibus, dein longitudinaliter erumpentibus, 300-350 μ. longis, 60-90 μ. crassis; conidiis cuneiformibus, deorsum attenuatis, ex hyphis repentibus, fuligineis, septulatis, 3-4 μ. crassis oriundis, quinquelocularibus, dilute olivaceis; loculis duobus extimis vix pallidioribus, omnibus plus v. minus guttulatis, 35 ≈ 6, pedicello versiformi ac varia longitudine, 5-10 ≈ 2-2,5; loculo supremo inæquilaterali cymbiformi, duobus rostellis crassiusculis, hyalinis, 15 ≈ 1,3 donato, uno e vertice, altero e latere orientibus.

Hab. in baccis maturis Vitis viniferæ pr. Conegliano in Italia boreali (Spegazzini).

27. Pestalozzia uvicola Speg. in Thum. Pilze des Weinstockes p. 13. 4128

— Acervulis e globoso lenticularibus, quandoque conoideis, atris, subepidermicis, erumpentibus et epidermide lacerata circum circa parum dealbata cinctis, 300-400 µ. diam.; conidiis fusiformibus 5-locularibus; loculis tribus mediis dilute olivaceo-fuscis, quandoque guttulatis, duobus extimis hyalinis, 35 ≈ 8-10, inferiore basidium conidii longitudinem subæquans gerente, 25-30 ≈ 1, superiore tribus rostellis vel ciliis 8-10 ≈ 1 donato.

Hab. in baccis maturis Vitis viniferæ, Conegliano in Italia boreali.

28. Pestalozzia pezizoides De Not. Micr. ital. Dec. III. p. 28, f. IX. Sacc. 4129 Myc. ven. Spec. p. 199, t. XVII. f. 28. — Acervulis gregariis v. sparsis, innato-erumpentibus, disciformibus, dein scutellato-pezizoideis, atris, subinde confluentibus; conidiis fusoideis, 5-locularibus; loculis interioribus fuscis, extimis hyalinis, 33-40 \approx 8-9, stipite prælongo, 50-60 \approx 1\frac{1}{2}; rostellis, 5-7 patentibus, brevibus, raro furcatis.

Hab. in sarmentis dejectis Vitis viniferæ et ripariæ in Italia, Gallia, Amer. bor.; in lignis putrescentibus Juglandis, Lyon in Gallia.

29. Pestalozzia Fuchsiæ Thum. Contr. Myc. Lus. n. 344. — Acer- 4130 vulis vel cæspitibus sparsis, minutis, dilute fuscis, globulosis, epiphyllis in macula plus minusve orbiculari, arescendo fusco-ochracea, obsolete concentrice zonata, anguste purpureo-cincta; conidiis numerosis, late fusiformibus, utrinque acutatis, quinquecellularibus, cellulis extremis hyalinis, ceteris cinereis, ad septa leniter constrictis, 20-21 ≈ 7, vertice ciliis tribus achrois, subarcuatis, 6 a. long.

Hab. ad folia viva Fuchsiæ coccineæ, Coimbra in horto botanico (Moller).

30. Pestalozzia Osyridis Thum. Contr. F. Litor. n. 318. — Acervu- 4131 lis gregariis, minutis, epidermide primo tectis, postremo poro pertusis, hemisphæricis, opaco-nigris; conidiis elongato-fusoideis, rectis vel sæpe parum curvis, 22-28 ≈ 7, cellulis mediis tribus fuscis, aliis hyalinis, utrinque acutissimis, vertice ciliis duobus vel tribus hyalinis, curvis, brevibus ornatis.

Hab. in ramulis tenuibus emortuis Osyridis albæ, Pola in Istria.

31. Pestalozzia mangalorica Thüm. F. Exot. n. XVI, in Rev. Myc. 4132 — Acervulis epiphyllis, punctiformi-applanatis, sparsis, emersis, minimis, nigris in macula irregulari-orbiculari, arescendo albicante, subtus ferruginea; conidiis orculæformibus, 5-septatis, utrinque loculo acuto hyalino, angustato ad septa non constrictis, vertice pilis tribus hyalinis ornatis, basi longipedicellatis, 15 = 7 (parte colorata).

 $\it Hab.$ in foliis vivis Brideliæ scandentis, Mangalore terræ Canaræ Ind. or. (Dr. $\it Keck$).

32. Pestalozzia Oxyanthi Thum. Contr. Myc. Lusit. n. 574. — Acer-4133 vulis amphigenis, dense gregariis, hemisphæricis vel applanatis, aterrimis, pulveraceis, subinquinantibus, sine macula; conidiis fusiformibus, rectis vel paullulum arcuatis, quinqueseptatis, utrinque acutatis, cellulis tribus mediis fumoso-griseis. aliis hyalinis, ad septa non constrictis, vertice ciliis duobus vel tribus brevibus caducis ornatis, 15-18 = 5,5-6,5, basi in pedicellum brevem arcuatum achroum angustatis.

Hab. ad folia emortua Oxyanthi pubescentis, Coimbra Lusitaniæ in calidariis horti botanici (Moller).

33. Pestalozzia versicolor Speg. in Sacc. Mich. I. p. 479. — Acer- 4134

vulis globoso-lenticularibus, primo subepidermicis, dein erumpentibus et circum circa ex conidiis exsilientibus matricem atro-inquinantibus; conidiis fusoideis, 4-septatis, 30 = 10, loculis 2 extimis hyalinis, 2 internis superioribus atro-olivaceis, tertio inferiore amœne flavo-virescente, 3-guttulatis; loculo supremo conoideo, 3-4 rostella, 25-30 = 1, gerente, infimo inflatulo quandoque 1-guttulato in pedicellum, $5-8 \approx 1$, desinente.

Hab. ad folia dejecta putrescentia Nerii Oleandri, Conegliano in Ital. bor. — β . Americana Speg. Pug. Arg. IV. n. 310: acervulis elongatis, hysteriatim erumpentibus, 0,5-1,5 = 0,2-0,3 mill., atris; conidiis obovato-fusoideis, 40-45 = 10, 4-septatis, loculis duobus extimis minutis, hyalinis, 2 internis superioribus intense olivaceis, tertio inferiore fulvo-olivascente, eguttulatis; loculo supremo 3-4 rostellis 30-35 = 1 ornato, infimo inflatulo pedicello parvo 5-8 = 1 suffulto. In culmis Scirpi palustris in Argentina.

34. Pestalozzia funerea Desm. in Ann. Scienc. nat. XIX. 1843, pag. 4135 235, F. Ital. t. 1115. — Acervulis sparsis, punctiformibus, aterrimis, epidermide tectis, demum prorumpentibus; stromate depresso, albido; conidiis oblongo-fusoideis, 5-locularibus, ad septa paullum constrictis, loculis 3 interioribus fuscis, 2 extimis, conoideis hyalinis, 22-32 = 6-8, apice rostellis 2-5 patenti-recurvis, hyalinis $10-15 \approx 0.7-1$ ornatis; basidiis brevibus $5-9 \approx 1-1.5$.

Hab. in foliis ramulisque emortuis Thujæ, Cupressi, Cryptomeriæ, Araucariæ, Taxi, Taxodii, Sequojæ, Juniperi, Pinorum, Podocarpi (P. Cesatii Rabenh. F. E. n. 1932), nec non, sec. auctores, Citrorum, Smilacis, Eucalypti etc. in Gallia, Germania, Britannia, Italia, Austria, Belgio, Amer. bor. Sec. cl. Spegazzini in Mich. I. p. 478, sequentes speciei formæ venetæ distingui merentur, quæ forte a quibusdam ut species propriæ sumptæ sunt. — a. typica: conidiis 4-septatis; loculis tribus interioribus atro-olivaceis, 30-35 = 7-8; rostell. 3, 15 = 1; stip. 5-10 ≈ 1. In foliis vivis vel emortuis Pteridis aquilinæ, Photiniæ serrulatæ, Eucalypti Steweniani, Rubi fruticosi, Evonymi chinensis, Thujæ et Cupressi etc. — β. crassipes: conidiis oblongo-fusoideis, 4-septatis; 3 loculis internis atroolivaceis, $20-30 \approx 7$; rost. 3, $10-12 \approx 1$; stip. $5-10 \approx 3-3\frac{1}{2}$. In ramulis emortuis Lonicerae Caprifolii, Conegliano, - 7. multiseta: conidiis elliptico-elongatis, utrinque acutis; 3 loculis internis atro-olivaceis, $25-30 \approx 9-10$; rost. 5-10, $7-10 \approx 1$; stip. $5-7 \approx$ 1. In foliis dejectis Iridis Germanicæ, Conegliano Ital. bor.,

Rhododendri arborei in Gallia. — δ . discolor: conidiis oblongo-fusoideis, 4-septatis; 3 loculis internis olivaceis, loculo medio intensius colorato, $25-30 \approx 7-8$; rost. 4-5, $15-20 \approx 1$; stip. $8-10 \approx 1$. In foliis emortuis Buxi sempervirentis et Scrophulariæ caninæ, Tarzo prope Conegliano. — Quibus addo: ϵ . punctiformis Sacc. Mich. II. p. 284: acervulis minutissimis, nigris, amphigenis; conidiis normalibus, $25 \approx 6-7$, breve 3-aristatis breveque stipitellatis. In foliis emortuis Fagi silvaticæ in horto patavino. Ab affini P. Guepini basidiis brevibus tantum forte differt, et dubium est, auctores multos utramque sæpe confudisse.

35. Pestalozzia cupressina Niessl. Hedwig. 1883, p. 188. — Acer-4136 vulis disseminatis, planiusculis, orbicularibus, peridermio lacerato cinctis, atris; conidiis oblongis vel subclavatis, rectis, biseptatis, loculis nucleatis, longe pedicellatis, 18-21 ≈ 8-9 (sine pedicello), atrofuscis, 4-6-rostellatis; rostellis rectis, divergentibus.

Hab. in ramulis emortuis Cupressi glaucæ, Coimbra in Lusitania.

36. Pestalozzia fœdans Sacc. et Ell. Mich. II. p. 375. — Acervulis 4137 densissime gregariis, innato-erumpentibus, pulvinatis, atris; conidiis fusoideis, 5-locularibus, ad septa non constrictis, 22 = 5,5-6,5; loculis 3 interioribus fuligineis, guttulatis, extimis hyalinis, acutis; setulis apicalibus ternis 15-17 = 1; stipite 5-8 = 1.

Hab. in cortice Thujæ, Newfield N. J. Am. bor. (Ellis). — A Pest. funerea, cui affinis, præsertim conidiis angustioribus differt.

37. Pestalozzia Cryptomeriæ Cooke in Grev. XII. p. 24. — Acer-4138 vulis foliicolis sparsis, tenuibus, subprominulis, convexis; conidiis lanceolatis, longe stipitatis, 3-locularibus, fuscis, utrinque hyalino-apiculatis, 12 ≈ 3,5, triciliatis.

Hab. in foliis Cryptomeriæ in Carolina austr. (RAVENEL). — A P. funerea rite diversa.

38. Pestalozzia conigena Lév. in Ann. Sc. nat. 1846, V. p. 285. — 4139 Acervulis gregariis innatis globosis, intus nigris, epidermide lacerata cinctis; conidiis fusoideo-elongatis in stipitem attenuatis, 4-septatis, leniter constrictis; loculis 3 mediis fuscis, terminalibus, hyalinis, 20-24 \simes 6-7.5; aristis apicalibus, 3-4 pellucidis.

Hab. in strobilis Thujæ occidentalis, Pini silvestris, P. rigidæ in Gallia, Sibiria, Belgio, Germania, Austria.

39. Pestalozzia strobilicola Speg. Mich. I. p. 479. P. Stevensonii 4140 Peck (teste ipso). — Acervulis primo lenticularibus tectis, dein conoideis, erumpentibus, 1/4-1/3 mill. diam., atris gregariis, rarius

sparsis; conidiis elliptico-fusoideis, utrinque acuminatis, 3-septatis, $25 \approx 9$; loculis 2 internis atro-fuligineis, 2 extimis autem hyalinis, superiore 3-4 rostellis, $22-30 \approx 1$ ornato, inferiore pedicellum, $5-10 \approx 1$, gerente.

Hab. ad strobilos putridos Pini silvestris etc., Susegana Ital. bor. et in Amer. bor.

40. Pestalozzia insidens Zab. in Peck. Rep. on the St. Mus. New 4141 York. — Acervulis.....; conidiis 5-septatis; loculis 4 centralibus coloratis, 28-37 p. longis, aristis longis apice coronatis.

Hab. in cortice Ulmi, New Baltimore (ZABRISCKIE), Greene County (Peck).

41. Pestalozzia Mori (Cast.) Mont. Cent. VI. n. 30 in Ann. 3, XX. 4142 p. 44. Syll. Crypt. n. 934, Sphæria Mori Cast. Mars. p. 175. — Acervulis gregariis, hemisphærico-conicis, subdimidiatis, innato-erumpentibus, cuticula canescente primo tectis, atris opacis, tandem elabentibus; conidiis fusiformibus quadriseptatis, 20 μ. long.; loculis 3 mediis coloratis, extimis hyalinis, altero fine bicornibus.

Hab. in cortice Mori prope Marseille Gallie.

42. Pestalozzia stictica B. et C. North Amer. Fungi n. 485. — 4143 Acervulis minutissimis; conidiis subdoliiformibus, biseptatis, parte colorata 15 = 15, addito utrinque loculo minuto hyalino supero aristas infero basidium breve gerente.

Hab. in foliis Platani occidentalis, Tiliæ, Santee River Amer. bor.

43. Pestalozzia hysteriiformis B. et C. North Amer. Fungi n. 487. 4144 — Acervulis minutis e macula arida decolorata concentrice zonata oriundis; conidiis breviter fusiformibus, biseptatis; pedicellis hyalinis elongatis.

Hab. in foliis Quercus nigræ, Aiken in Carolina America boreali.

44. Pestalozzia Castagnei Desm. XIII. Not. p. 64, Robillarda glan-4145 dicola Cast. Mars. p. 205. — Acervulis nigris vel cinereis, epidermide fissa tectis; conidiis fusiformibus, apice obtusis, 4-septatis, 22-25 μ. longis; loculis intermediis 3 semiopacis, terminalibus hyalinis, aristis 3 divergentibus, basidia subæquantibus; basidiis conidio dimidio brevioribus.

Hab. in glandibus quercinis in Belgio et Gallia. — A P. Guepini differt conidiis longioribus et crassioribus aristisque multo brevioribus; a P. funerea conidiis angustioribus et loculis fuligineis ternis nec quaternis.

45. Pestalozzia Guepini Desm. in Ann. Sc. nat. 1840, XIII. p. 182, 4146 tab. 4, fig. 1-3. — Acervulis minutis, punctiformibus, convexulis, nigris, tectis dein epidermide fissa erumpentibus; conidiis fusiformibus, 20 μ. longis, 3-4-septatis; loculis intermediis semiopacis, terminalibus conoideis hyalinis, aristis 3-4, hyalinis, divergentibus, basidio paullo longioribus; basidiis hyalinis conidium æquantibus.

Hab. in foliis Camelliæ japonicæ, Camelliæ reticulatæ, Rhododendri maximi, Citri, Amygdali, Smilacis, Magnoliæ, Lagerstræmiæ in Italia, Belgio, Anglia, Austria, America boreali. — Typus in Camellia occurrit; an formæ in ceteris matricibus indicatæ eædem sint, forte dubitandum.

46. Pestalozzia lignicola Cooke Handb. n. 1403, p. 472. — Acervu- 4147 lis (peritheciis?) semiimmersis, lateraliter compressis, nigris vertice ob pressionem lateralem elongato; conidiis 3-septatis; loculis 2 interioribus brunneis, 2 extimis hyalinis; rostellis 2-4 hyalinis simplicibus; basidiis longissimis.

Hab. in fragmentis ligneis putridis in Britannia, in lignis pineis, Acaciæ, Salicis, Rosæ in Italia, Gallia, Argentina. — Forte est mera forma lignicola P. truncatw. In exemplaribus venetis adsunt conidia 3-septata, loculis 2 interioribus primo flavidis, dein atro-olivaceis, 2 extimis hyalinis, $12-18 \approx 4-7$, loculo supremo 2 rostellis, $20-25 \approx 1$, ornato, inferiore in pedicellum, $20-30 \approx 1$, desinente.

47. Pestalozzia truncata Lév. Ann. Sc. nat. 1846, V. p. 285, Didy-4148 mosporium truncatulum Corda Ic. fung. VI. fig. 16, Pestalozzia truncatula (Corda) Fuck. Symb. Myc. p. 391, t. I. fig. 43, a. b.

— Acervulis gregariis globoso-depressis, innato-erumpentibus, intus nigris; conidiis ovatis v. oblongis, sæpe inæquilateralibus, stipitatis 4-cellularibus, cellulis 2 mediis majoribus, cuboideis, fuligineis, guttulatis, extimis minutissimis hyalinis, supera in cilia 2-4 abeunte, infera in basidium filiforme conidium superans, utraque denique secedente et conidium truncatum 1-septatum 16-17 ≈ 9 muticum relinquente.

Hab. in ramis et ligno Quercus, Fagi, Padi, Eucalypti, Salicis, Populi, conis Abietis, caulibus Hyperici etc. in Gallia, Bohemia, Italia, Germania, California.

48. Pestalozzia heteromorpha Thüm. Contr. Myc. Lusit. n. 575. — 4149 Acervulis amphigenis, densissime gregariis, hemisphærico-emersis, nitide fusco-atris, magnis, sine ordine dispositis et sine macula; conidiis fusiformibus, plerumque arcuatis, tri-raro quadricellularibus,

cellula apicali hyalina, acutata et ciliis tribus longissimis, rectis, subulatis, achrois ornata, cellulis ceteris dilute griseis, ad septa subconstrictis, in pedicellum longum angustatis, $18-22 \approx 5$.

Hab. ad folia arida Polygoni platycodontis, Coimbra in

Lusitania. — Species valde insignis!

49. Pestalozzia compacta B. et C. North Amer. Fung. n. 488. — 4150 Pustulis elevatis, distinctis, medio perforatis; conidiis anguste triseptatis, brunneis, P. Guepini similibus.

Hab. in caulibus Humuli Lupuli in Carolina infer. Am. bor.

50. Pestalozzia hypericina Ces. in Kl. Herb. myc. II. n. 64, Bot. Zeit. 4151 1855, p. 599. — Acervulis lineolatis, nigris, sæpe rimose dehiscentibus v. fatiscentibus; nucleo pallido; conidiis 3-septatis, curvis, pellucidis, utrinque bisetis, setis simplicibus divaricatis, imo reflexis conidii longitudine, loculo conidiorum inferiori e mediis ampliore.

Hab. in caulibus corticatis et decorticatis Hyperici perforati in Italia superiore.

51. Pestalozzia caulicola Lév. in Ann. Sc. nat. 1846, V. p. 285. — 4152. Acervulis sparsis, innatis, globosis, nigris, ostiolis erumpentibus conicis pertusis; conidiis ovatis, 3-4-locularibus, aristis 4-5 simplicibus vel ramosis.

Hab. in caule Cirsii lanceolati, Paris in Gallia.

52. Pestalozzia Moorei Harkn. Calif. F. p. 14. — Acervulis subcu-4153 ticularibus, in maculis pallidis orbicularibus, erumpentibus et matricem inquinantibus; conidiis fusiformibus, 3-septatis; loculis duobus mediis pallide brunneis, oblongo-nucleatis, ceteris hyalinis et acute conicis; basidiis conidium æquantibus vel duplo longioribus, e conidio facile secedentibus, aristis 4 conidio duplo longioribus, 32 = 9.

Hab. in caulibus emortuis Hosackiæ glabræ, Antioch in California.

53. Pestalozzia herbicola Sacc. Myc. ven. Spec. pag. 199, tab. XVII. 4154 f. 27. — Acervulis convexo-planis, erumpentibus; conidiis fusoideis 5-locularibus; loculis 3 interioribus fuscis, guttulatis, 2 extimis hyalinis, $25 \approx 6$, stipite hyalino, 10μ . longo; rostellis 3 patentissimis, hyalinis, 15μ . longis.

Hab. in foliis exsiccatis Stellariæ Holosteæ et Galii silvatici in silva Montello agri tarvisini in Ital. bor.

54. Pestalozzia torulosa B. et C. North Amer. Fungi n. 486. — 4155 Acervulis parvis, sparsis vel e macula nigra oriundis; conidiis bi-

septatis constricto-torulosis, 25-37 μ . longis; loculis extimis subinde brunneis.

Hab. in seminibus Citrulli vulgaris in Carolina. — Conidia utrinque aucta sunt locello minuto hyalino, altero aristas altero basidium gerente.

55. Pestalozzia capitata Ellis Torr. Bot. Club. 1882, p. 133. — Acer- 4156 vulis hysteriiformibus, erumpentibus, minutis, subseriitis dein confluentibus, puccinioideis; conidiis clavato-oblongis, 3-septatis, loculo inferiori hyalino, ceteris brunneis, parte colorata 5 = 7,5; aritata tripartita conidium subæquante, divaricato-capitata.

Hab. in foliis emortuis Xerophylli asphodeloidis in

America boreali.

56 Pestalozzia clavata C. et Ell. in Grevillea t. 99, fig. 7. — Acer- 4157 vulis punctiformibus, congestis vel circinatis, e macula pallida fusco-cincta oriundis; conidiis subclavatis, tricellulatis, loculo infero hyalino, parte colorata, 22 = 8, pedicellis hyalinis, distinctis; aristis ternis conidium æquantibus.

Hab. in foliis Smilacis, New Jersey Amer. bor.

57. Pestalozzia Phœnicis Vize Grev. V. p. 14. — Maculis brunneis; 4158 acervulis minutis, atris, nitidis, subimmersis, hinc illinc cæspitosis, conidiis rubfusiformibus, 4-septatis, bicristatis, longe pedicellatis, articulis tribus intermediis brunneis, 18 = 7 (p. colorata).

Hab. in foliis Phænicis dactyliferæ in India.

58. Pestalozzia Palmarum Cooke in Grevillea t. 86. fig. 3. — Erum- 4159 pens, atra, gregaria vel sparsa; acervulis sphæriæformibus; conidiis fusiformibus, quadriseptatis, pallide fuscis, triaristatis, stipite elongato, hyalino, 15 ≈ 5-6 (parte colorata).

Hab. in fructu germinante et foliis putrescentibus Cocos nu-

ciferæ, Demerara et Bengal Asiæ.

59. **Pestalozzia macrospora** Ces. in Kl. H. Myc. n. 1663, Sacc. Fungi 4160 Ven. V. p. 198. F. it. t. 1114, *P. Pteridis* Sacc. in Thum. Mycoth. Univ. n. 83. — Acervulis gregariis, subcutaneis, depressis, atris, subinde confluentibus et erumpendo fœdantibus; conidiis fusoideis, $40 \approx 7-8$, 5-locularibus; loculis 3 interioribus dilute olivaceis extimis hyalinis; ciliis plerumque 5 filiformibus. $18-20~\mu$. long., arcuato-patulis, sæpe ramulosis; stipite conidiorum filiformi 5-6 μ . long., hyalino.

Hab. in frondibus languidis Pteridis aquilinæ prope Vercelli et Treviso Ital. hor.

II. Monochætia Sacc.

Gonidia saltem partim colorata, apice 1-aristata.

60. Pestalozzia monochæta Desm. Ann. Sc. nat. 1848, p. 355, Sacc. 4161 F. ital. t. 1119 et Myc. Ven. Spec. p. 198, t. XVII. f. 25, Coryneum rostratum Fuck., Pestalozzia Peckii Clint. in Peck. Rep. — Acervulis sparsis gregariisve sæpe hypophyllis, maculas varias, arescentes occupantibus, atris sæpe inquinantibus; conidiis fusoideis, 4-locularibus; loculis 2 interioribus fuscis, 2 extimis hyalinis, 10 ≈ 4; stipite hyalino, 18-20 μ. longo, rostello apicali subrecto 5-6 μ. longo.

Hab. in foliis exsiccatis Quercus pedunculatæ, Q. albæ Castaneæ et Eucalypti in Gallia, Italia, Germania, Belgio, Amer. bor. — β . Libertiana Sacc. Mich. II. p. 634: conidiis paullo longioribus, nempe $15 \approx 4-5$, triseptatis; loculis intermediis fuligineis extimis hyalinis; rostellum $6 \approx \frac{1}{2}$ obliquum. In ramulis Sambuci in Arduennis (Libert).

61. Pestalozzia Saccardoi Speg. in Sacc. Mich. I. p. 480. — Acer-4162 vulis parenchymate immersis, punctiformibus, densiuscule gregariis; conidiis 4-septatis, 20 = 5; loculis 3 internis atro-opacis, 2 extimis hyalinis; superiore acute conoideo, majusculo 1 rostellum singulum e basi curvato-uncinatum hyalinum 10-15 = 1¹/₂ gerente, inferiore in pedicellum, 30-40 = 2, desinente.

Hab. ad folia dejecta putrescentia Quercus, Conegliano et in silva Montello Ital. bor.

62. Pestalozzia concentrica B. et Br. North Am. Fungi n. 491. — 4163 Acervulis concentricis e macula pallida oriundis; conidiis triseptatis, 10 μ. longis ut plurimum monochetis, arista obliqua, rarius trifida.

Hab. in foliis Piri, Cratægi, Castaneæ et Quercus virentis in Carolina et Florida Americæ bor. — Pestalozziæ monochælæ proxima.

63. Pestalozzia bicornis Dur. et Mont. Fl. Alg., I. p. 586. — Epi-4164 phylla, depazeoides; acervulis (peritheciis?) sphæricis, pachydermaticis, innatis, 300 p. diam., epidermide dealbata, fissa, tandem prominulis; conidiis oblongis 2-3-locularibus, appendice singula curvata utroque fine coronatis, 15 = 6,5.

Hab. in foliis Phillyreæ mediæ et Quercus, Stora et Alger (Durieu). — Si adest perithecium aptius ad Cryptostictim referendum genus.

64. Pestalozzia monorhincha Speg. F. Arg. Pug. IV. n. 311. — A Pest. 4165 decolorata, cui affinis, recedit conidiis majoribus, 20-30 ≈ 6-7, semper tantum 3-septatis; loculis internis chlorinis, 2 extimis hyalinis, supero in rostellum sublaterale apice sæpius curvulum producto.

Hab. in foliis languidis Eugeniæ unifloræ, in dumetis uliginosis, Quilmes Argentinæ.

65. Pestalozzia compta Sacc. Mich. II. p. 542, F. ital. t. 1116. — 4166 Maculis epiphyllis e circulari angulosis, ochraceis, vix discolorimarginatis; acervulis sparsis innato-erumpentibus, circulari-inæqualibus, atris; conidiis oblongo-fusoideis, 9-10 \(\times 4.5-5\), utrinque acutiusculis, 4-locularibus, vix constrictis; loculis 2 intermediis fuligineis, extimis hyalinis, setula apicali unica stipiteque filiformibus, hyalinis, 18-20 \(\times 0.7\).

Hab. in foliis languidis Rosæ muscosæ, Selva in Ital. bor. 4167 66. Pestalozzia americana Mont. Fl. Chil., VII. p. 481, et Syll. Crypt. n. 931. — Epiphylla; acervulis (peritheciis?) ovoideis, folio immutato innatis, tandem in ostiolum subprominentibus attenuatis; conidiis oblongis, pedicellatis, biseptatis, fuscis, apice unicornibus.

Hab. in foliis dejectis in Chile (GAY).

67. Pestalozzia Jefferisii Ell. in Torr. Bot. Club. 1883, p. 133. — 4168 Acervulis nigris, planis, erumpentibus, sparsis; conidiis ellipticis, 5-septatis, brunneis, loculis terminalibus hyalinis, $18-20 \approx 7,5-9$, basidiis longis, gracilibus suffultis, apice arista brevi obliqua, 5,5-7 μ . longa auctis.

Hab. in Viburno prunifolio, West Chester Amer. bor.
68. Pestalozzia unicornis C. et Ell. in Grevillea — Acervulis lirel- 4169 læformibus, atris; conidiis cylindricis, 5-septatis, brunneis; cellulis ultimis hyalinis, superne unicornutis, inferne longe stipitatis, 35 ≈ 8.

Hab. in ligno Cupressi thyoidis, New Jersey Amer. bor. 69. Pestalozzia monochætoidea Sacc. et Ell. in Sacc. Mich. II. p. 4170 375, F. ital. t. 1117. — Acervulis gregariis, epidermide velatis, pulvinatis e globoso inæqualibus, $\frac{1}{4}$ mill. diam., nigris; conidiis breve fusoideis, inæquilateralibus, $8-10 \approx 4$, utrinque obtusiusculis, 3-septatis, non constrictis, loculis mediis fuligineis, extimis hyalinis, apice setulà $8-10 \approx \frac{1}{2}$ hyalinâ terminatis basidiisque filiformibus, $8-10 \approx \frac{1}{2}$, suffultis.

Hab. in ramulis Spirææ emortuis, Newfield Americæ bor. (Ellis). — Affinis P. microsoræ Sacc. Michel. II. 273.

70. Pestalozzia plagiochæta Sacc. Mich. I. p. 533, Sacc. F. ital. t. 4171 1118. — Acervulis globoso-lenticularibus, innato-erumpentibus, dein cupulatis, atris; conidiis oblongo-cylindraceis, subinæquilateralibus, 38-40 ≈ 9, 6-locularibus; loculis extimis hyalinis, ceteris fuligineis, loculo supero obtusiusculo infra apicem setulam obliquam, 8 μ. long., hyalinam gerente, loculo infero in stipitem, 6-8 μ. long., attenuato.

Hab. in cortice ramorum Lauri nobilis in Gallia (Brunaud).

71. Pestalozzia Veneta Sacc. Mich. I. p. 92, Fungi ital. t. 83. — 4172 Acervulis gregariis subcutaneis, denique erumpentibus, lenticularibus, aterrimis; conidiis oblongo-fusoideis, 30-34 \(\times\)7, 5-septatis, ad septa non constrictis; loculis 4 interioribus fuligineis, minute guttulatis, extimis minoribus, hyalinis, seta terminali filiformi, 15-18 \(\times\)1, tortuosa hyalina, stipitibus filiformibus, fasciculatis, 40-45 \(\times\)1, e pseudostromate lutescente oriundis, hyalinis.

Hab. in ramis corticatis Corni sanguineæ, Selva, Conegliano in Ital. bor. (Spegazzini).

72. Pestalozzia seiridioides Sacc. Coryneum marginatum Hazsl. 4173 Sph. d. Ros. p. 213, t. IV. 29-37, vix Fr., Seiridium marginatum Fuck. Symb. p. 391, t. II. fig. 31 (?). — Acervulis disciformibus, atris, erumpentibus; conidiis tereti-fusoideis, 5-septatis, non constrictis, 26-28 \(\times 6-7\); loculis 4 interioribus fuligineis, 1-guttatis, extimis conicis hyalinis; arista apicali singula filiformi conidium subæquante, curva dein rectiuscula; basidiis filiformibus fasciculatis partim cum conidio secedentibus et aristam curvam simulantibus.

Hab. in ramis corticatis Rosæ in Hungaria et Helvetia. — Affinis Pestalozziæ venetæ, sed in hac basidia in aristam persistere non observavi.

73. Pestalozzia Tecomæ Niessl Hedw. 1883, p. 188. — Acervulis 4174 planiusculis, tectis, irregularibus, sinuatis, e badio subatris; conidiis fusiformibus, rectis vel leviter curvatis, 3-septatis, pedicellatis, fuscis, plerumque monochætis, 20-24 \times 7-8 (sine pedicello), rostello curvato.

Hab. in ramulis aridis Tecomæ radicantis, Coimbra in Lusitania.

74. Pestalozzia coryneoidea Harkn. Calif. p. 13. — Acervulis pla-4175 niusculis, nigris, oblongis vel ovalibus, 1 mill. diam., denique depressis et irregulariter hiantibus; conidiis fusiformibus, curvis 5-septatis, 35-37 = 12, viridi-nigricantibus; loculis apicalibus, hyalinis,

minutis, quandoque obsoletis; apice oblique 1-aristato, setula tertiam conidii partem æquante.

Hab. in ramis emortuis Umbellulariæ californicæ, Tamalpais in California. — Differt a Pestalozzia plagiochæta conidiis crassioribus et loculis terminalibus minoribus.

75. Pestalozzia microsora Sacc. Mich. vol. II. pag. 284. — Acer- $_{4176}$ vulis gregariis minutissimis subcutaneis; conidiis oblongo-fusoideis, sæpe curvulis, $12-14 \approx 6$, 4-5-septatis, loculis interioribus fuligineis, extimis minutis hyalinis, seta filiformi brevi obliqua $10~\mu$. longa apice acutis, stipitibus fasciculatis filiformibus, $18 \approx 1$, suffultis.

Hab. in caule Euphorbiæ spinosæ, S. Giuliano, Toscana (Groves). — Characteribus Pest. monochætæ subaffinis, habitu vero prorsus aliena.

76. Pestalozzia? anomala Harkn. F. Calif. p. 13. — Pustulis minu. 4177 tis, irregularibus, sæpe confluentibus, matricem inquinantibus; conidiis fusiformibus, curvatis, 3-septatis, constrictis, 15-18 = 5-6, pallide brunneis; loculis terminalibus hyalinis; basidiis crassiusculis, conidio æquilongis deciduis; setula singula in utroque fine conidium superante irregulariter 1-3-ramosa; setula basilari obliqua e latere basidii simulate egrediente.

Hab. in caule, quem omnino obducit, Eriogoni virgati in mont. Diablo in California.

77. Pestalozzia macropoda Speg. in Sacc. Mich. I. p. 480. — Acer-4178 vulis epiphyllis, primo tectis dein erumpentibus, conoideis, minutissimis, cinereo-fuligineis; conidiis fusiformibus, $35-38 \approx 7$, 4-septatis, ad septa leniter constrictis; loculis 3 interioribus olivaceis, 2 extimis hyalinis, superiore rostellum unicum obliquum vel rectum, $15 \approx 1-1^{1}/_{2}$, apice abrupte et brevissime recurvato-uncinatum gerente, inferiore in pedicellum, $45-50 \approx 1$, desinente.

Hab. in frondibus emortuis Pteridis aquilinæ, Conegliano in Ital. bor.

III. Pestalozzina Sacc. Conidia tota hyalina.

78. Pestalozzia unicolor B. et C. North Amer. Fungi n. 584. — 4179 Acervulis minutissimis; conidiis oblongis, utrinque leviter attenuatis triseptatis, hyalinis, 25 μ. longis.

Hab. in Junipero, New England in Amer. bor.

79. Pestalozzia laurina Mont. Cent. VI. n. 94, in Ann., 3, XII. 312, 4180

Syll. Crypt. n. 933. — Hypophylla; acervulis gregariis punctiformibus atris erumpenti-innatis; conidiis fusariiformibus hyalinis denique vix fulvellis, primo subcontinuis, mox transversim 4-5-septatis, $30 \approx 3$, altero fine appendicibus subternis divaricatis instructis.

Hab. in foliis Lauri nobilis, Montaud-lez-Miramas Galliæ (Castagne), et Lauri caroliniensis in Carol. inf. (RAVENEL).

80. Pestalozzia Callunæ Ces. in Rabenh. F. Eur. n. 61, et Bot. Zeit. 4181 1860. p. 174. — Acervulis (peritheciis?) carbonaceis, subinnato-emersis, sparsis, irregularibus, plerumque oblongis, haud raro compressis, cito vertice ruptis et tunc fere cenangioideis; conidiis numerosissimis, minutis, cylindraceis, curvulis, utrinque obtusiusculis et setigeris, obscure multiseptatis.

Hab. in ramis Callunæ vulgaris prope Oropa in Ital. bor.
— «An vera Pestalozzia?».

IV. Species mihi minus note.

- 81. Pestalozzia phacidioides Ces. in Kl. H. Myc. II. n. 65. In 4182 caulibus Linaria in Italia boreali prope Vercelli et in Belgio prope Bererloo.
- 82. Pestalozzia depazeiformis Auersw. in Œsterr. Bot. Zeit. 1868, 4183 pag. 200. In Austria et Italia bor.
- 83. Pestalezzia ramealis Fr. Summa Veg. Scand. pag. 416. In 4184 Suecia.
- RHOPALIDIUM Mont. et Fries, Ann. Sc. nat. 2. VI. pag. 30. et Fr. Summa p. 476 (Etym. rhopale clava). Acervuli innati, subepidermici, fusci foliicoli. Conidia 2-pluriseptata, clavata, subhyalina, stipitata, gelatinæ immersa.
- Rhopalidium Brassicæ M. et Fr., l. c., t. 12, f. 4. Acervulis 4185 fuscis, amphigenis, cuticula semper tectis; conidiis conglutinatis, longo clavulatis, pedicellatis, multiseptatis, septis transversis 7 ad 9, inequaliter distantibus, pellucidis.

Hab. in foliis moribundis Brassicæ oleraceæ prope Lyon Galliæ.

- **SEPTOGLŒUM** Sacc. Mich. II. p. 11. (Etym. septum et glaum h. e. Glavosporium phragmosporum). Acervuli biogeni, minuti, subepidermici, subinde crumpentes, pallidi. Conidia oblonga, 2-pluriseptata, hyalina. Est quasi Glavosporium conidiis pluriseptatis.
- 1. Septogleum Angelicæ (C.) Sacc. Glarosporium Angelicæ Cooke 4186

in Grevill. — Maculis fuscis, variis; acervulis gregariis, rotundatis, vix prominulis; conidiis cylindrico-clavatis, nucleatis, demum biseptatis, hyalinis, $40-60 \approx 8$.

Hab. in foliis languidis Archangelicæ, Aiken Carolinæ.

2. Septogleum Apocyni Peck 34 Rep. St. Mus. 45, t. 1, f. 1-2. — 4187 — Maculis paucis, latis irregularibus, brunneo vel nigro-brunneis; acervulis parcis; conidiis crasse subcylindraceis, utrinque rotundatis, dilute coloratis, 22-38 \u22222,5, 4-6-septatis, non constrictis, guttulatis.

Hab. in foliis vivis Apocyni cannabini, North Greenbush in Amer. sept.

3. Septogloum carthusianum Sacc. Mich. II. p. 11, Glivosporium car. 4188 thusianum Sacc. Mich. I. p. 93, F. it. t. 86. — Acervulis in maculis foliorum expallentibus subcircularibus, remote sparsis, prominulis, initio epidermide velatis, flavidis; conidiis in basidiis brevissimis apice rotundatis acrogenis, oblongo-cylindraceis, 30 ≈ 9-12, constricto-2-septatis, guttulatis, hyalinis; loculis quandoque secedentibus.

Hab. in foliis languidis Evonymi europæi in silva Montello, loco ubi erat Carthusia. in Italia boreali.

4. Septoglœum Nuttallii Harkn. F. Calif. p. 13. — Amphigenum, cir-4189 cinans; maculis pallidis, 2-5 mill. diam., sparsis in pag. super.; conidis cylindraceis, truncatis, 1-5- scepius 1-septatis, 36-45 ≈ 4-5, in cirros carneos exsilientibus.

Hab. in foliis vivis Nuttallite cerasiformis, Tamalpais California.

5. Septogleum Fraxini Harkn. F. Calif. p. 12. — Maculis minutis, 4190 albidis, angulosis, 4-10 mill. diam.; acervulis epiphyllis; conidiis cylindraceis, 2-5-septatis, hyalinis, 16-24 \(\pi 4-5\).

Hab. in foliis vivis Fraxini Oreganæ, Tamalpais Californiæ.

Septoglœum acerinum (Pass.) Sacc. Mich. II. p. 541, Fungi ital. 4101
 t. 1071, Glæosporium acerinum Pass. in Thüm. M. Eur. n. 93.
 — Acervulis initio subcutaneis, disciformibus, subsuccineis; conidiis fusoideis, curvulis, 20 ≈ 4, trinucleatis spurieque biseptatis, hyalinis; basidiis brevissimis papilliformibus.

Hab. in foliis adhuc vivis Aceris campestris prope Parma (Passerini). — Gl. acerinum West. Exs. n. 979 forte huc spectat, sed in specimine 1. c. a me examinato conidia tantum binucleata vidi.

7. Septogleum salicinum (Peck) Sacc. (Hurosporium salicinum Peck 4192

33 Rep. St. Mus. p. 26. - Maculis latis, irregularibus, indefinitis, aridis, pallidis; conidiis elongatis, subfusiformibus, curvatis vel flexuosis, obscure triseptatis; loculis 1-nucleatis, hyalinis, 40-55 u. lg.

Hab. in foliis vivis Salicis sericem, Sandlake Amer. bor.

8. Septogloum maculans Harkn. F. Calif. p. 12. - Maculis epiphyl. 4193 lis circularibus, atro-fuscis, 1-11/2 cent. diam.; acervulis hypophyllis, in cirros pallide flavos exsilientibus; conidiis fusoideis utrinque vehementer curvatis, hyalinis, 30-50 = 6-9, plasmate 2-7-partito.

Hab. in foliis vivis Salicis lasiolepidis, Tamalpais Ca-

liforniæ.

- PROSTHEMIELLA Sacc. Mich. II. p. 356, F. ital. t. 1090 (Etym. ab analogo Prosthemio). -- Acervuli innati, dein erumpentes, perithecio vero destituti, supra laticolores, Conidia copiosissima, cylindracea, deorsum crassiora, plura basi (Prosthemii ad instar) stellatim connata, hyalina, septulata. — A Prosthemio defectu perithecii, conidiis hyalinis etc. facile dignoscitur.
- 1. Prosthemiella formosa Sacc. et Malbr. in Mich. II. p. 356. F. it. 4194 t. 1090. -- Acervulis convexo-pulvinatis, diu peridermio tectis, dein irregulariter erumpentibus, basi nigricantibus, disco amœne aureis, $\frac{3}{4}$ -1 mill. diam.; conidiis 3-8 stellatis, obclavatis, $40-45 \approx 4$, deorsum septulatis et sæpe torulosis, granulosis, hyalinis, cellula centrali varie angulosa.

Hab. ad ramos fagineos, Brionne Galliæ (MALBRANCHE) et in Arduennis (Libert). - Fungus cum nullo commutandus! Prosthemium formosum Lib. Herb. n. 601 huc spectat.

- STEGANOSPORIUM Corda Icon. Fung. III. p. 22. (Etym. steganos tectus, densus, et spora). - Acervuli subcutanei, dein subinde erumpentes, atri, pulvinati, compacti. Conidia solitaria h. e. non catenulata, ovoidea vel piriformia, 2-pluriseptata et muriformia. Basidia bacillaria, sape paraphysibus intermixta.
- 1. Steganosporium piriforme (Hoffm.) Corda Icon. Fung. III. p. 23, 4195 tab. 4, fig. 61, Sacc. F. ital. tab. 1108, Stilbospora piriformis Hoffm, F. germ, H. tab. XIII. fig. 2, Stilliospora ovata Pers. Obs. I. tab. 2, fig. 2. — Gregarium; acervulis immersis, semper tectis, coriaceis, atris; conidiis clavato-obpiriformibus, $35-40 \approx 15-18$, utrinque, pracipue apice, rotundatis, 4-6-septatis, non constrictis, septo uno alterove longitudinali (vel saltem plasmate murali-diviso), olivaceo-fuligineis, basidiis filiformibus, 40-50 \u2223, suffultis.

Hab. in cortice trunci Tiliæ, Fagi, Aceris Pseudoplatani in Germania, Italia bor., Gallia, Amer sept.

2. Steganosporium irregulare (B. et C.) Sacc., Coryneum irregu-4196 lare B. et C. North Amer. Fungi n. 482. — Acervulis elevatis distinctis; conidiis obovatis, 4-6-septatis, 150 µ. longis, deorsum attenuatis; loculis infimis, angustis et sensim in stipitem tenuissimum abeuntibus; endochromatibus verticaliter divisis.

Hab. in ramis Betulæ, Alabama in Amer. bor.

3. Steganosporium Æsculi Sacc. Syll. II. p. 3, ut Massariæ Lesculi 4197 stat. conid. — Acervulis pulvinatis, subcutaneo-erumpentibus, fuscis; conidiis piriformibus, 3-4 transverse et lougitudinaliter septatis, fuscis, demum totis opacis, 40 ≈ 20.

Hab. in ramulis Æsculi Hippocastani in Italia horeali, Germania, Gallia.

Steganosporium compactum Sacc. in Mich. II. p. 542, F. ital. t. 4198
 1107, Coryneum compactum Sacc. F. Ven. Ser. V. p. 198, nec
 B. et Br. — Acervulis ligno basi insculptis, pulvinato-applanatis, compactis, nigricantibus; conidiis fasciculatis, oblongis clavatisque 50 ≈ 20, 3-6-septatis muriformibusque, ad septa constrictis, fuligineo-cinnamomeis; basidiis teretiusculis, conidio brevioribus, concoloribus.

Hab. in ramis emortuis Ulmi, Selva (Treviso) in Italia bor.
Acervali ab initio verisimiliter cortice nidulantes.

5. Steganosporium fenestratum (E. et E.) Sacc. Stillbospora fene-4199 strata Ellis et Ev. Bull. Torr. 1884, p. 18. — Stromate subcuticulari vel indistincto; conidiis ellipticis, fenestratis, brunneis, 35-40 = 15-20, crasse stipitatis et cuticulam in pustulas elevantibus, denique erumpentibus et effluentibus maculasque minutas, atras formantibus.

Hab. in ramis emortuis Clethræ alnifoliæ, New Field N. J. Amer. bor.

6. Steganosporium cellulosum Corda Icon. Fung. III. fig. 62, Spori-4200 desmium cellulosum Fr. sec. Klotzsch Exs. n. 189. — Acervulis effusis, nigris; conidiis subpiriformibus, 5-7-septato-muriformibus, non constrictis, fuligineis, 32-34 y. longis; basidiis copiosis subramosis, hyalinis.

Hab. in ramis emortuis Tiliæ microphyllæ in Germania Britannia, Belgio et Amer. bor. — Quoad speciem americanam (in Acere saccharino. Cfr. B. et C. North Amer. Fungi) dubium adest, nam conidia 50 y. longa describuntur.

7. Steganosporium taphrinum Sacc. Syll. II. p. 290 ut Teichosporæ 4201 taphrinæ stat. conid. Fuck. Symb. App. II. p. 305. — Acervulis in macula albescenti, ramulos decorticatos sæpe totos occupantibus, gregariis, ligno immersis, ellipticis, compressis, corneis, ex ligno protuberantibus, aterrimis, demum vertice irregulariter hiascentibus et conidia ut pulverem nigrum emittentibus; conidiis valde polymorphis, plerumque obovatis subpiriformibus, ovatis, oblongis, rotundatis, simplicibus vel 1-3-septatis muriformibusque vel cruciatim septatis, fuscis, plerumque 8-10 μ. longis.

Hab. in ramulis siccis decorticatis Populi tremulæ in Suecia et Germania.

8. Steganosporium Platani Preuss F. Hoyersw. n. 336. — Gregarium; 4202 acervulis cortici immersis, tectis, atris; basidiis filiformibus, albis; conidiis subpiriformibus, fuscis; nucleo quater in una serie posito (?).

Hab. in ramorum cortice Platani, Hoyerswerda. — «Descri-

ptio conidiorum nimis incerta».

 Steganosporium castanicolum (B. et C.) Sacc. Coryneum castani- 4203 cola B. et C. North Amer. Fungi n. 481. — Acervulis prominulis epidermide arcte cinctis; conidiis elongatis, breviter, pedicellatis pluri-septatis, leniter curvatis; endochromatibus demum verticaliter divisis.

Hab. in ramis levibus Castaneæ in Pensylvania Amer. bor.

10. Steganosporium cavernosum Mont. sept. cent. pl. cell. ined. p. 4204 347. — Erumpens; acervulis immersis sursum erumpentibus, excavatis; conidiis ovoideis, olivaceis, obtusis, initio brevissime pedicellatis, mox liberis, 20 = 12, irregulariter cellulosis, lignum elevatocolliculosum canescentem haud inquinantibus.

Hab. in caudice annoso Oleæ europææ prope Montaud-lés-

Miramas in Gallia.

11. Steganosporium chlorinum Pass. et Beltr. F. Sic. n. 34. — Stro-4205 mate nullo; acervulis subdiscoideis, pulveraceis, olivaceo-viridibus; conidiis globosis, ellipticis vel fusiformibus, minute et sæpius obscure cellulosis, olivaceis, magnitudine variis, 20-60 = 15-20.

Hab. in ligno denudato Oleæ europææ, Monostalla Siciliæ.

— (An potius Sporodesmium?).

12. Steganosporium obscurum (Corda) Sacc., Coryneum obscurum 4206 Corda Icon. Fung. I. p. 8, t. II. f. 123. — Erumpens, atrum; stromate immerso convexo, intus corneo, atro; conidiis erectis 5-6-septato-muriformibus, ad septa subconstrictis, oblongis, fuscis; pedicellis longis simplicibus v. ramosis, articulatis, subdiaphanis, fuscis.

Hab. in virgultis arborum frondosarum prope Reichenberg in Bohemia. — «An fungus potius macrosporoideus?».

13. Steganosporium muricatum Bon. Handb. Myk. p. 60, f. 52. — 4207 Acervulis tectis, ovoideis, mycelio filamentoso cinctis; conidiis oblongo-ovoideis, 5-7-septato-muriformibus, ad septa constrictis, deorsum acutatis et in basidium filiforme hyalinum conidio subæquale attenuatis, dein in cirros tenues atros effluentibus.

Hab. in corticibus in Guestphalia.

14. Steganosporium clavatum Preuss F. Hoyersw. n. 47. — Grega- 4208 rium; acervulis immersis, dein subliberis, orbicularibus, opaco-atris, primum medio papillatis; basidiis filiformibus, albis; conidiis clavatis fusiformibusque; episporio albo; nucleo septato, fusco, subquadrato.

Hab. in cortice arborum frondosarum, Hoyerswerda.

15. Steganosporium Guyonianum (M. et D.) Sacc. Didymosporium 4209 Guyonianum Mont. et Dur. Fl. Alg. I. p. 330. — Amphigenum; conidiis oblongis triseptatis, tandem cellulosis, sub epidermide folii in acervulos atros punctiformes, 100-150 μ. diam., demum grumulose erumpentes conglutinatis, 13 = 7-8.

Hab. in foliis Suedæ maritimæ in desertis sabulosis, ad meridiem urbis Biskra late patentibus (Guyon). — «An Stigmella?».

PHRAGMOTRICHUM Kunze et Schm. Myk. Hefte II. p. 84, t. II. f. 4. (Etym. phragma septum et thrix capillus, filamentum). — Acervuli subcutaneo-erumpentes, depressi, atri. Conidia angulosa, catenato-superimposita, pluriseptato-clathrata fusca, isthmis teretiusculis, septatis pallidioribus connexa. — Bullarix et Seiridio perfecte analogum genus, sed conidia septato-muriformia.

Phragmotrichum Chailletii Kunze l. c., Sacc. F. ital. t. 1101, Corda 4210 Ic. Fung. III. p. 30, f. 80. — Acervulis innatis, pulvinatis, nigricantibus, oblongis vel subcircularibus, ¹/₂-1 mill. diam.; conidiis subrhomboideis, crebre muriformibus, 20 ≈ 15, fuligineis, angulis subhyalinis per isthmos filiformes subhyalinos, 2-3-septatos catenulatim connexis.

Hab. in strobilis Abietis in horto botanico romano (Bagnis), prope Neufchâtel Helvetiæ (Chaill.), in Vogesis (Malbranche), in Suecia (Sommerfelt).

2. Phragmotrichum acerinum Fr. Summa Veg. Scand. p. 474, Scler. 4211

Melanconieæ, Dictyosporæ, Phragmotrichum.

Suec. n. 437 (non vidi). — Acervulis....; conidiis ovali-oblongis, non angulatis, cellulosis, isthmo concatenatis; perithecio nullo.

Hab. in ramis? Acerum in Suecia.

3. Phragmotrichum quercinum Hoffm. Ic. anal. fung. p. 69, t. 17, 4212 f. 1. — Acervulis tuberculiformibus, atris, orbicularibus, sparsis (superficialibus); conidiis approximatis vel discretis, oblongis, muriculatis, septatis vel rarius murali-divisis, 25-30 = 12-15; isthmis brevibus, sæpe nullis.

Hab. ad lignum quercinum fabrefactum, carie exesum prope Darmstadt Germaniæ. — «Ex icone mihi potius Sirodesmium videtur».

REPERTORIUM

MELANCONIEARUM

SECUNDUM MATRICES

Obs. A. indicat Agyriella. — As. Asterosporium. — B. Blennoria. — Bo. Bloxamia. — Bu. Bullaria. — C. Colletotrichum. — Co. Coryneum. — Ca. Cryptomela. — Cr. Cryptosporium. — Cy. Cylindrosporium. — D. Didymosporium. — G. Glæosporium. — H. Hainesia. — Ha. Hyaloceras. — Hy. Hypodermium. — L. Libertella. — Mi. Marsonia. — Mu. Melanconium. — Me. Melanostroma. — Mo. Myxormia. — Ma. Myxosporella. — M. Myxosporium. — N. Næmospora. — Pa. Pestalozzia. — P. Pestalozziella. — Pi. Phragmotrichum. — Pe. Prosthemiella. — R. Rhopalidium. — So. Scolecosporium. — Si. Seiridium. — Se. Septoglæum. — S. Septomyxa. — Su. Steganosporium. — St. Stilbospora. — Ti. Thyrsidium. — T. Trullula.

N. 3656 — 3999 citantur 656 — 999 N. 4001 — 4212 citantur 1 — 212

Abies — G. 761. — Hy. 809. 811. —
Cr. 878. — Mu. 970. — Ti. 2. —
Pa. 148. — Pi. 210.

Acacia — G. 708. — Co. 56. — Pa.
110. 147.

Acer — H. 657. — G. 677. 678. — M.
775. — L. 898. — D. 9. — Mi. 27.
— Co. 62. 71. — Se. 191. — Su.
200. — Pi. 211.

Acorus — Cr. 889.
Ægopodium — Cr. 886.
Æsculus — G. 756. — S. 22. — Su.
197.

Agave — Mu. 986.

Agrostemma — Mi. 35.

Alisma — Cy. 865.

Alnus — G. 735. 736. — M. 801. — Cr. 866. - L. 901. -- N. 922. 923. — Mu. 935. 959. 960. 961. 962. — St. 42. 46. — Co. 66. 80. Alocasia - G. 766. Aloe - G. 676. Ammophila - Ca. 994, Amygdaleæ - C. 58. Amygdalus — Pa. 146. Andropogon — C. 844. Apocynum - Se. 187. Aquilegia — G. 659. 660. Aralia - Pa. 125. Araucaria - Pa. 135. Arauja — G. 706. Arbutus — Cr. 884. — Co. 59.

Repertorium

Archangelica — Se. 186. Arctostaphylos — G. 704. — Cr. 885. Arundinaria — Mu. 989. Arundo — Mu. 989. — Ca. 995. Atragene -- Mi. 34.

Bartsia — G. 712.

Betula — G. 732. 733. 734. — M. 797.

798. 799. — Cr. 866. — L. 897. —

Mu. 963. 964. 965. — Ca. 997. —

Ti. 1. — D. 13. — St. 43. — Co.

68. 74. 75. 76. — As. 95. 96. —

Su. 196.

Borrago — Cy. 857.

Brassica — G. 665. — R. 185. Bridelia — Pa. 132. Buxus — B. 815. — G. 714. —

Buxus — B. 815. — G. 714. — Pa. 135.

Cactus — St. 51. Calophyllum - Pa. 121. Caltha - Cy. 849. 850. Calluna — Pa. 181. Calycanthus — Co. 61. Calycotome — G. 684. Camellia - Pa. 146. Capparidee - Cr. 888. Capparis -- G. 666. Carex - Ca. 992. 993. Carpinus — G. 722. 723. 863. — M. 788. — Cr. 872. — N. 910. — Mu. 928. 957. 946. 963. 966. — Ti. 998. 4000. — D. 8. — St. 41. 45. — Co. 70. — Pa. 116. Carva — Mu. 944, 946, 948. Caryota — Mu. 983.

Castanea — M. 795: — Cr. 881. — N.

906. 910. — Mu. 954. 955. 956. -

St. 44. — Co. 69. 74. 78. 90. — Pa. 161. 163. — Su. 203.

Celastrus — D. 11.

Celtis — D. 14.

Cercis — Pa. 111.

Cinchona — St. 52.

Cirsium — Pa. 152.

Citrullus — Pa. 155.

Clavaria — Mu. 991. Clethra - Su. 199. Cocos - Pa. 159. Colchicum — Cy. 863. Colletia — M. 777. Coniferæ - C. 846. Cornus — M. 776. — St. 45. — Co. 57. — Pa. 172. Corylus — G. 725. 726. — M. 788. 789. 790. 791. 792. 793. — N. 916. — Ti. 4. — Co. 79. Cratægus - N. 913. 915. - Co. 59. 85. 86. - Pa. 163. Cryptomeria — Pa. 135. 138. Cucumis — G. 757. Cucurbita — G. 758. 759. — N. 921.

Cupressus — Pa. 135, 136, 169. Cycas — B. 820. Cydonia — G. 689, 738.

Daphne — Mi. 30. Diospyros — T. 838. Donax — Mu. 990. Dracæna — M. 805.

Echinocactus — N. 920.

- S. 21.

Eriogonum — Pa. 177.

Erodium — G. 679.

Evonymus — G. 680. — Mi. 29. —

Pa. 123. 124. 135. — Se. 188.

Eucalyptus — G. 750. — Cr. 867. —

Mu. 931. — St. 45. — Pa. 103. 104.

105. 135. 148. 161.

Eugenia — Pa. 106. 165.

Euphorbia — Pa. 176.

Fagus — G. 727. 728. — M. 794. 804. — Cr. 871. — L. 892. 893. 903. — N. 910. — Mu. 928. 951. — Ti. 999. — D. 9. — St. 45. — Co. 74. — So. 94. — As. 95. — Pa. 135. 148. — Pe. 194. Ficaria — Cy. 848. Ficus — Mu. 958. Fragaria — G. 690. Fraxinus — G. 699. — M. 794. — T. 824. — N. 906. — Se. 190. Fuchsia — Pa. 130.

Galium — Pa. 154. Genista — Pa. 108. Geranium — P. 847. Geum — Cy. 855. Gleditschia — M. 769. Graminaceæ — T. 837. Glycyrrhiza — Cy. 851.

Hamamelis — G. 664. Hardenbergia — G. 687. Hedera — G. 696. 697. — Mu. 934. 935. — Ti. 998. — Pa. 126. Helianthemum — G. 667. Hepatica — G. 662. Hosackia — Pa. 153. Hoya— G. 676. 707. 708. Humulus — Pa. 150. Hypericum — Pa. 148. 151.

Ilex — G. 670. — Pa. 118. 119. 120. Inula — G. 701. Iris — Pa. 135. Iuglans — G. 760. — Cr. 870. 882. — Mu. 945. 946. 947. 948. — Mi. 28. — Pa. 129. Iuniperus — Pa. 135. 179. — Co. 92.

Iasminum — Mu. 936.

Kerria — T. 828. — N. 909. — Co. 59.

Lagerstræmia — Pa. 146.

Laportea — G. 715.

Laurus — G. 713. — T. 822. — Mu. 941. — Pa. 171. 180.

Leguminosæ — G. 685.

Libanotis — G. 745.

Ligustrum — G. 682.

Linaria — Pa. 182.

Liquidambar — Si. 99.

Liriodendron — M. 771.

Lobelia — G. 702.

Lonicera — L. 895. — Mi. 29. — Pa. 122. 135. Lupinus — Cr. 880. Lychnis — G. 700. — Mi. 35. Lycium — Mu. 937. — D. 5. Lycopersicum — G. 754.

Magnolia — G. 663. — N. 919. — Mu. 929. — Pa. 146.

Malus — Pa. 122.

Marchantia — Co. 93.

Melilotus — Mi. 39.

Morus — Cr. 838. 883. — Mu. 942.

— D. 19. — Pa. 142.

Musa — M. 806.

Myginda — G. 681.

Myosotis — Cy. 857.

Myrica — Pa. 107.

Myrtaceæ — Pa. 102.

Neillia — Mi. 30. Nerium — Pa. 134. Nuttallia — Se. 189. Nyssa — Cr. 869.

Olea — Mu. 940. — Ha. 101. — Su. 204. 205.

Orchidaceæ — G. 707. 765.

Oreoselinum — T. 834.

Ostrya — G. 724.

Osyris — Pa. 131.

Oxyanthus — Pa. 133.

Pæonia — Co. 55.
Paliurus — T. 822.
Pandanus — Mu. 985.
Panicum — Ca. 996.
Passerina — Mi. 38.
Paulownia — T. 822.
Persica — G. 753. — T. 822.
Phaseolus — G. 747. — Cy. 852.
Phillyrea — Pa. 164.
Phænix — Pa. 158.
Phormium — G. 763.
Photinia — Pa. 117. 135.

Phragmites — Mu. 989.
Physalis — G. 709. — Cy. 859.
Phytolacca — G. 742.
Pinus — G. 737. — Hy. 809. 810. 813.
— Mu. 967. 969. — St. 50. 53. —
Pa. 140. 147. 135. 139.
Pirus — G. 751. 752. — M. 772. —
T. 826. — Cr. 886. — Mu. 928. —
Pa. 116. 163.
Plantago — Cy. 860.

Plantanus — G. 716. 717. 743. — Ma. 814. — D. 12. — St. 47. — Pa. 143. — Su. 202.

Podocarpus — T. 825. — Pa. 135. Polygonum — Cy. 861. — Pa. 149. Polypodium — G. 767. Populus — G. 719. 720. 721. — M.

Populus — G. 719. 720. 721. — M. 769. 781. 782. 783. 784. — Me. 808. — T. 822. 832. — Cr. 876. 877. — N. 907. — Mu. 943. — D. 12. — Mi. 24. 25. 26. — Co. 67. 77. — Pa. 148. — Su. 201.

Potentilla — G. 690. — Mi. 37. Prosopis — G. 749.

Prunus — M. 773. — Cy. 854. — Mu. 925, 927. — Co. 70. — Pa. 113. 148. Pteris — G. 768. — Pa. 135. 160. 178.

Quercus — G. 729. 730. 731. 762. — M. 791. 796. 797. 804. — Cr. 873. L. 899. 900. — N. 906. 910. 917. 918. 924. — Mu. 950. 963. — D. 17. 18. — Mi. 33. — St. 46. 48. — Pa. 118. 144. 145. 148. 161. 162. 163. 164. — Pi. 212.

Ranunculus — G. 661. — Cy. 850.
Rhamnus — M. 769.
Rhododendron — G. 705. — Co. 88.
89. — Pa. 135. 146.
Rhus — H. 656. — G. 683. — M. 778.
— M. 939. — D. 15.
Ribes — G. 693. 694. 695. — Cr. 887.
Robinia — M. 770. — T. 829. — M. 930.
Rosa — M. 774. — T. 833. — L. 894.

— N. 912. 914. — Pa. 147. 166. 173.

Rosaceæ — Si. 97. — Pa. 112.

Rubus — H. 658. — G. 692. 739. — B. 816. — A. 821. — T. 822. 823. 837. — N. 914. — Mu. 926. — Co. 59. 60. 85. — Pa. 115. 135.

Rumex — Cy. 862. — Co. 65.

Sabal — Mu. 984. Salix — G. 718. — M. 769. 785. 786. 787. — Me. 808. — Cr. 874. 875. — L. 902. — N. 908. — S. 23. — Co. 72. 73. — Si. 98. — Pa. 147. 148. — Se. 192. 193. Sambueus — Mu. 938. — Pa. 161.

Ruscus — B. 819. — C. 842. 843.

Sambucus — Mu. 938. — Pa. 161. Sanguisorba — G. 691. Sarothamnus — Pa. 109.

Saxifraga — Cy. 853. Scirpus — Pa. 134. Scleromycetes — C. 845.

Scrophularia — Cy. 858. — Pa. 135.

Secale — Mu. 988. Sequoja — Pa. 135.

Silene - Mi. 35. Smilax - Mi. 40. - Co

Smilax — Mi. 40. — Co. 84. — Si. 100. — Pa. 135. 146. 157.

Solanum — Cr. 879. Sorbus — Cr. 886.

Sorghum — D. 7. Spartium — T. 827.

Sphæriaceæ — C. 845.

Spiræa — C. 841. — Cy. 856. — Pa. 170.

Staphylea - St. 49.

Stellaria — Pa. 154.

Suæda - Su. 209.

Symphytum — Cy. 857.

Syringa - L. 894.

Syzygium — Pa. 114.

Taxodium - Pa. 135.

Taxus — Mu. 968. — Pa. 135.

Tecoma - Co. 63. - Pa. 174.

Thuja — Pa. 135, 137, 138.

Tilia — G. 669. — Mu. 932. 933. — Co. 71. 75. — Pa. 143. — Su. 200. Trifolium — G. 688. Typha — Mu. 987.

Ulmus — M. 779. 780. — B. 839. — Co. 67. 68. 70. 71. — Pa. 141. — Su. 198.

Umbelliferæ — G. 746. — C. 844. — Bu. 20.

Umbellularia — B. 818. — Pa. 175.

Urcstigma — D. 6.

Vaccinium — G. 703. — Co. 64. Vanilla — G. 707. Veratrum — Cy. 864. Veronica — G. 710. 711. Viburnum — G. 698. — Pa. 168. Viola — G. 668. — Mi. 36. Viscum — T. 831. -Vitis — G. 740. 741. 755. — T. 822. — Co. 59. — Pa. 127. 128. 129.

Xerophyllum — Pa. 156 Xerotes — G. 764.

INDEX ALPHABETICUS

GENERUM

SPHÆROPSIDEARUM ET MELANCONIEARUM

ADDITIS SECTIONIBUS GENERICIS.

	1		
Actinonema	408	I. Rami-fructicolæ	459
'I. Eu-Actionema: spor. 1-septat.	408	II. Foliicolæ	406
II. Asteromidium: sp. 2-plurisept.	409	B) In Dicotyledoneis herbaceis	467
Actinothecium	638	C) In Monocotyledoneis, Acoty-	
Agyriella	731	ledoneis et charta	409
Amerosporium	680	Catinula	673
Amphisporium	692	Ceuthospora	277
Angiopoma	442	Chætodiplodia	374
Aposphæria	169	Chætomella	321
Aschersonia	619	I. Eu-Chætomella: spor. olivac.	321
Ascochyta	384	II. Melochwta: sporul. hyal	322
I. In foliis Dicotyled, lignosar.	384	Chiastospora	621
II. In ramulis Dicotyled, lignos.	394	Cicinnobolus	216
III. In Dicotyledoneis herbaceis.	396	Coccobolus	692
IV. In Monocotyled. et Acotyled.	405	Collacystis	616
Asteroma	201	Colletotrichum	735
I. Eu-Asteroma: perithecia et		Coniothyrium	305
sporulæ nota	201	I. In Dicotyledoneis arboreis	305
H. Asteromata dubia: spor. ignot	. 204	II. In Dicotyledoneis herbaceis.	315
A) In Dicotyledoneis lignosis.	204	III. In Monocotyledoneis	316
B) In Dicetyledoneis herbaceis.	200	IV. In Acotyledon, et in stercore.	319
C) In fructibus et gallis .	213	Cornularia	598
D) In Monocotyledoneis .	214	Coryneum	774
E) In Acotyledoneis	215	I. Species cauli-ramicolæ .	774
F) Species minus note	215	II. Species foliicolæ	780
Asteromella	183	Couturea	443
Asterosporium	782	Crocicreas	185
Blennoria	730	Cryptomela	760
Bloxamia	734	Cryptosporium	740
Botryodiplodia	377	I. Species ramicolæ	740
Bullaria	766	II. Species foliicolæ	74:
Camarosporium	459	Cyptosticis	443
1) In Dicotyledoneis lignosis.	459	Cylindrosporium	737
/			

Cyphina	623	Entomosporium	
Cystotricha	413	Ephelis .	65
Cytoplea	325	Ericonoro	69
Cytoplea	251	gest	600
I. Arboricolæ (ramicolæ)	25 2	Excipularia .	689
II. Foliicolæ et fructicolæ	275		66
III. Herbicolae		I. Eu-Eccipula: spor. muticæ.	666
IV Minus natur	276	II. Melanophæa: spor. appendic.	665
0 1 -	277	III. Dubiæ: spor. ignotæ.	667
Cytosporina Cytosporella	601	IV. Incognitiv	670
Cytosporella	251	Excipulina .	688
Darluca	470	Fuckelia .	244
Cytosporina Cytosporella Cytosporium Darluca Dendrophoma	410	Fusicoccum Gelatinosporium	247
I. Eu-Dendrophoma: per. sub-	178	Glosopanium	596
		Gloeosporium	690
II. Dendrophomella: perithecia	178	I. In foliis Dicotyledonearum.	69.
	100	II. In ramis, caulibus Dicotyl.	715
	180	III. In fractibus et gallis Dicotyl.	717
Dichima Dichomera	620	IV. In Monocotyledoneis et Aco-	
Dichomera	471	tyledoneis	720
H Confellers	763	Godroniella	665
Dilophospora	765	Hainesia	698
Dinemasporium .	600	Haplosporella .	353
I. Eu-Dinemasporium: sporulæ	683	Harknessia	320
and the state of t	370	Hendersonia	418
II. Stauronema: sporulæ crucia-	შ83	I. Eu-Hendersonia: spec. minor.	419
A. W t L I	000	A) In ramis Dicotyl. lignosar.	419
Diplodia	686	B) In foliis fructibusque Dico-	
	350		426
I. In Dicotyledoneis	329	C) In caulibus, foliis fructibu-	
A) Ramicolæ. B) Folii-fructicolæ	329	sque Dicotyled, herbacear.	430
B) Foll-Pricticole	358	D) In Monocotyl. et Acotyled.	434
C) Caulicole	364	II. Sporocadus: spec. majores.	410
II. In Monocotyledoneis	370		141
Diplodiella Diplodina	375	Hendersonula	445
Discella	411	Heteropatella	370
	687	Hyaloceras	783
Discosia Discula	653	Hypocenia .	320
	674	nypoaermum	728
I. Ramicolæ	674	Hysteromyxa Labrella	;22
II. Cauli-fructicolæ.	676	Labrella	347
III. In Monocotyledoneis . Dothichiza	677	In Cilialis	372
Dothiorollo	671		339
L Species wines	235	I. In Dicotyledoneis lignosis.	39
I. Species minores.	236	A) Species ramicolæ (139
II. Hydnopsis: stromata major. Endobotrya	343	B) Species folii-fructicolie . **	41
Endotnichum	470	II. In Monocotyledoneis et Aco-	
Chaoti Ichun	692		13

Rhynchophoma	414	C) In Monocotyled, et Acotyl.	303
Robillarda	407	II. Macroplodia: sporulæ muco	
Roumeguèriella	616	obvoluta	305
Sacidium	649	Sporonema	677
I. Species typicæ	650	Stagonospora	445
II. Species quoad genus dubiæ	651	i. in Dicoty lettoners	446
Sclerotiopsis	184	H. In Monocotyled. et Acotyl.	450
Scolecosporium	782	Stagonopsis.	621
Schizothyrella	690	Staurochæta	218
Seiridium	782	Steganosporium	803
Septoglœum	801	Stilbospora	771
Septomyxa	766	Thyrsidium	761
Septoria	472	Trullula	731
I. In Dicotyledoneis	475	I. Eu-Truttula: basidia ramul.	
A) Foliicolæ	475	v. simpl.; conid. olivac.	731
§ In plantis lignosis	475	II. Cesatia: basidia simpl. coni-	
§§ In plantis herbaceis .	508	dia hyalina	732
B) Carpogenæ	5 58	III. Hormococcus: basidia ramo-	
II. In Monocotyledoneis	460	sa; conid. hyalina	733
III. In Acotyledoneis et in Insectis	576	IV. Species dubiæ	734
Sirococcus	217	Vermicularia	221
Sphærographium	596	I. In Dicotyledoneis arboreis.	222
Sphæronæma	185	A) Ramicolæ	222
I. Eu-Sphwronæma: sporulæ		B) Petioli-fructicolæ	223
. subhyalinæ	185	C) Foliicolæ	224
A) In Dicotyledoneis lignosis.	185	II. In Dicotyledoneis herbaceis.	225
B) In Dicotyledoneis herbaceis.	195	4) Caulicolae	225
C) In Monocotyledoneis et Aco-		B) Foliicolæ	231
tyledoneis etc	195	C) Fructicolæ	232
II. Næmosphæra: spor. coloratæ		III. In Monocotyledoneis.	232
III. Species minus notae	108	IV. In Acotyledoneis	235
Sphæronæmella	617	V. Species indescripta	235
Sphæropsis	291	Ypsilonia	215
I. Eu-Spherropsis: sporulæ non		Zythia	614
mucosa	202	Weinmannodora	325
A) In Dicotyledoneis lignosis.	203		ريي
B) In Dicotyledoneis herbaceis.	302		

INDEX ALPHABETICUS SPECIERUM

SPHÆROPSIDEARUM ET MELANCONIEARUM

Ex synonymis [cursive impressis], ca modo citantur, quæ, quoad specifica adjectiva, a nominibus acceptis desciscunt.

abdita (Phoma). 88. aberrans (Myxosporium). 766. abietinum (Gelatinosporium). 596. Abietis (Cornularia). 598. Abietis (Cytospora). 269. abnormalis (Hendersonia). 641. abnorme (Camarosporium). 461. abnorme (Coniothyrium), 312. abnormis (Discella). 688. abnormis (Phoma), 69. abnormis (Sphæropsis). 301. Abrotani (Diplodia). 368. abscondita (Sphæropsis). 301. Absus (Sphæropsis). 292. Acaciæ (Diplodia). 336. Acaciæ (Pestalozzia). 786. Acaciæ (Phoma). 148. Acanthi (Septoria). 535. acanthina (Phoma). 128. acerella (Septoria). 479. acericola (Hendersonia). 429. acericola (Phyllosticta). 14. acericola (Septoria), 577. acerina (Diplodia). 331. acerina (Libertella). 745. acerina (Melasmia). 637. acerina (Septoria). 478. acerinum (Dinemasporium). 680. acerinum (Gleeosporium). 703. acerinum (Leptostroma). 640. acerinum (Leptostroma). 647. acerinum (Leptothyrium) 630.

acerinum (Phragmotrichum). 806. acerinum (Septoglocum). 802. accrinum (Sphæronæma). 187. Aceris (Asteroma). 207. Aceris (Didymosporium). 768. Aceris (Diplodia). 331. Aceris (Glœosporium). 703. Aceris (Phleospora). 577. Aceris (Phyllosticta). 14. Aceris (Septoria). 577. Aceris-Negundinis (Phoma). 153. acervalis (Phoma). 97. acervata (Diplodina). 412. Acetosæ (Depazea). 63. Acetosæ (Phyllosticta). 55. Acharii (Cytospora). 267. Achenarum (Asteroma). 213. Achilleæ (Phoma). 124. acicola (Diplodia). 358. acieola (Phoma). 100. acicola (Pyrenochæta). 220. acicola (Septoria), 507. Acicula (Sphæronæma). 190. acicularis (Sphæronæmella). 617. aciculosa (Septoria). 511. Acmella (Phoma). 115. Aconiti (Diplodia). 369. acorella (Phyllosticta). 59. Acori (Phyllosticta). 59. Acrospermum (Spliæronæma). 192. acuminata (Vermicularia). 233. acuminatum (Didymosporium). 764.

acuminatum (Sphæronæma). 188. acuaria (Phoma). 100. aculeorum (Phoma). 76. acuta (Phoma). 133. acutum (Melanconium). 757. aeuum (Phoma). 100. Adenophoræ (Septoria). 545. Adoxæ (Septoria), 543. adoxicola (Depazea). 63. adpressa (Rabenhorstia). 244. advena (Dothiorella). 240. ægirina (Septoria). 502. Ægopodii (Ascospora). 529. Ægopodii (Septoria). 529. ægopodina (Septoria). 529. æquivoca (Phoma). 159. æquivocum (Camarosporium). 467. æquivocum (Coniothyrium). 317. æmulans (Sphæronæma). 195. æneus (Coccobolus). 692. Æsculi (Cytosporella). 251. Æsculi (Diplodia). 331. Æsculi (Fusicoccum). 247. Æsculi (Septomyxa). 766. Æsculi (Septoria). 479. Æsculi (Steganosporium). 804. æsculicola (Phyllosticta). 4. æsculina (Phyllosticta). 3. æsculina (Septoria). 479. Ætheorrhizæ (Septoria). 552. affine (Coryneum). 776. affine (Dinemasporium). 686. affine (Glossporium). 709. affine (Sphæronæma). 186. affinis (Cytospora). 263. affinis (Phoma). 85. affinis (Septoria). 563. africana (Phoma). 93. Agapanthi (Phoma). 158. Agaves (Coniothyrium). 318. Agaves (Diplodia). 371. agminalis (Aposphæria). 171. Agrimonice (Depazca). 63. Aguirrei (Sphæropsis), 297, Ailanthi (Botryodiplodia). 378. Ailanthi (Cytosporina). 603. Ailanthi (Phoma). 95. Ailanthi (Phyllosticta). 30. ailanthina (Diplodia). 332. ailanthina (Phoma). 95. Ajugæ (Pyllosticta). 50. Ajacis (Phyllosticta). 38.

Alaterni (Ceuthospora). 279. alba (Blennoria). 730. alba (Dendrophoma). 179. alba (Libertella). 746, albaniensis (Septoria). 501. albicans (Phoma). 123. albistratum (Coniothyrium). 313. albo-maculata (Vermicularia), 244. albo-nigra (Septoria). 507. albo-punctata (Septoria). 493. albo-zonata (Diplodia). 334. album (Eurotium). 166. album (Myxosporium). 726. Alceæ (Leptostroma). 647. Alcides (Hendersonia). 429. Alcides (Phyllosticta). 34. alicola (Phoma), 168. aliena (Phyllosticta). 16. Alismacearum (Cylindrosporium). 740. alismatella (Septoria), 570. Alismatis (Lemalis). 672. Alismatis (Phyllosticta). 60. Alismatis (Septoria). 569. Alismatis (Sphæria, Depazea). 60. allantella (Aposphæria). 171. allantella (Stagonospora). 449, allantoidea (Rhabdospora). 586. alliacea (Septoria). 572. Alliariæ (Asteroma). 204. alliicola (Phoma). 157. Alliorum (Septoria). 571. allostoma (Phoma). 74. alnea (Discosia). 654. alnea (Phoma). 98. alneum (Gleosporium). 715. alneum (Leptothyrium). 627. alneum (Xyloma). 654, Alni (Diplodia). 355. Alni (Micula). 604. Alni (Septoria). 506. Alni (Sphæropsis). 299. alnicola (Septoria). 506. alnigena (Phyllosticta). 31. alnigena (Septoria). 506. Aloes (Phyllosticta). 60. alpestre (Leptothyrium). 634. alpestre (Sacidium). 652. alpina (Phoma). 136. alpinum (Asteroma). 206, alpinum (Camarosporium). 461. alpinum (Glosporium), 708, Althee (Diplodia). 366.

Althææ (Septoria). 515. althæina (Ascochyta). 399. althæina (Phyllosticta). 40. ambiens (Cytospora). 268. ambigua (Phoma). 75. ambigua (Sphæropsis), 304. ambigua (Vermicularia). 224. Ambrosioidis (Phyllosticta). 55. Amelanchieris (Diplodia). 342. americana (Pestalozzia). 798. americanum (Glœosporium). 709. americanum (Melanconium). 759. Amenti (Phoma). 152. Amenti (Vermicularia). 224. amenticolum (Sphæronæma). 198. Ammophilæ (Cryptomela). 760. Ammophilæ (Phoma). 166. Amorphæ (Diplodia). 337, Amorphæ (Phoma). 68. ampelina (Ascochyta). 389. ampelina (Cytospora). 257. ampelina (Diplodia). 332. ampelina (Hendersonia). 423. ampelina (Phoma). 79. ampelina (Rhabdospora). 581. ampelina (Septoria). 479. ampelinum (Coniothyrium). 110. ampelogena (Phoma). 110. ampelophagum (Gloeosporium). 719. Ampelopsidis (Phoma), 79. Ampelopsidis (Sphæronæma). 188. amygdalinum (Cryptosporium). 741 Amygdali (Diplodia). 341. anaxæa (Phoma). 121. anaxæa (Septoria). 549. Andamensis (Diplodia). 370. andicola (Diplodia). 368. Andrachnes (Phoma). 169. Andromedæ (Phoma). 111. Andromedæ (Phyllosticta). 24. Andropogonis (Chætomella). 323. Androsæmi (Diplodia). 366. Andurnensis (Marsonia). 770. anceps (Cytospora). 255. anceps (Phoma). 120. anceps (Phyllosticta). 39. anceps (Placosphæria). 246. anemonea (Ascochyta). 522. Anemones (Septoria): 521. Anethi (Phoma). 125. anethicola (Ascochyta). 400... Angelicæ (Phyllosticta). 46.

Angelicæ (Septoglœum), 801, Angreci (Asteroma). 214. anguina (Phoma), 120. angulatum (Asteroma), 209. angulatum (Glæosporium). 717. angusta (Septoria). 569. angustata (Stilbospora). 772. angustata (Vermicularia). 230. angustatum (Sporidesmium). 772. annulata (Pestalozzia). 787. annularis (Zythia). 615. Anodæ (Septoria). 475. anomala (Diplodia). 364. anomala (Discula). 677. anomala (Hendersonia). 431. anomala (Pestalozzia). 800. anomala (Sphæropsis), 300, anomala (Sphæropsis). 293. Anonæ (Diplodia). 329. anserinum (Coniothyrium). 313. anthelmintica (Chætophoma). 201. anthracina (Phoma). 138. Arthrisci (Septoria). 530. Antirrhini (Septoria). 535. apiocarpon (Melanconium). 755. Apocyni (Septoglœum). 802. applanata (Rhabdospora). 579. applanatum (Amerosporium). 682. aquatica (Ascochyta). 405. aquatica (Phyllosticta). 60. aquatica (Stagonospora). 452. aquifolia (Diplodia). 360. aquifolia (Sphæropsis). 295. Aquifolii (Cytospora). 274, Aquifolii (Gloeosporium). 701. Aquilegiæ (Ascochyta), 396. Aquilegiæ (Depazea). 63. Aquilegiæ (Glæosporium). 700. Aquilegiæ (Septoria). 525. aquilina (Phoma). .167. aquilina (Septoria). 576. Arabidis (Septoria). 519. arachnoidea (Chætodiplodia). 375. Aratæ (Phyllosticta). 48. Araucariæ (Hendersonia): 430. Araujæ (Septoria). 542. Araujæ (Ascochyta). 404. Arbuti (Phyllosticta). 23. arbuticola (Diplodia). 364. arbuticola (Melasmia). 638. Arctii (Phoma). 122. Arctii (Vermicularia). 229.

arctica (Aposphæria). 176. arctieta (Phoma). 150. arctica (Septoria), 560. Arctostàphyli (Sphæropsis). 297. arcuata (Phlyetæna). 595. arcuata (Septoria). 499. Arcus (Stagonospora). 449. Arecæ (Depazea). 64. arenaria (Stagonospora). 453. areolatum (Leptostroma). 642. Arethusa (Septoria). 477. argentina (Diplodia). 349. Argentinæ (Phyllosticta). 40. argyrea (Phyllosticta). 29. argyræa (Septoria). 498. Ari (Septoria). 568. arida (Discella). 688. Arisari (Septoria). 568. Aristolochiæ (Ascochyta). 404. Aristolochiæ (Septoria). 558. Armoraciæ (Ascochyta). 397. Armoraciæ (Septoria). 519. Arnicæ (Phyllosticta). 45. Arnicæ (Septoria). 548. aromatophila (Phyllosticta). 18. Aronici (Phyllosticta). 45. Artemisiæ (Aposphæria). 173. Artemisiæ (Chætomella). 322. Artemisiæ (Phoma). 123. Artemisiæ (Septoria). 548. Artocarpi (Septoria). 500. Artocreas (Discosia). 653. Arunci (Phyllosticta). 41. Arunci (Septoria). 511. arundinacea (Diplodia). 373. arundinacea (Diplodina). 413. arundinacea (Hendersonia). 436. arundinacea (Phoma), 164. arundinacea (Septoria). 564. arundinaceum (Coniothyrium). 319. arundinella (Phoma). 165. arundinicola (Cytoplea). 325, Arundinis (Cryptomela). 761. Arundinis (Hendersonia). 437. Arundinis (Septoria). 564. Arundinis (Stagonospora). 455. arvense (Gloeosporium). 710. Asari (Septoria). 558. asclepiadea (Diplodia). 365. asclepiadea (Septoria). 542. Asclepiadearum (Phyllosticta). Ascochytella (Septoria). 483.

ascochytoides (Darluca). 411. ascochytoides (Diplodina). 412. ascochytoides (Septoria). 486. ascochytula (Diplodia). 345. Ascochytula (Septoria). 482. Asparagi (Ceuthospora). 280. Asparagi (Phoma). 162, aspera (Cytosporina). 602. aspera (Dendrophoma). 179. aspera (Excipula). 670. Asperulæ (Depazea). 63. Aspidiorum (Leptostroma). 645. Asphodeli (Phoma). 161. Asphodeli (Septoria). 570. Asphodeli (Stagonospora). 451. asphodelina (Phoma). 161. asphodelina (Septoria), 571. asterina (Sphæropsis). 298. asterinum (Leptothyrium). 632. Asteriscus (Phoma). 126. asterophora (Cytospora). 284. Astragali (Phyllosticta). 43. Astragali (Septoria). 508. Astrantiæ (Ascochyta). 400. astroidea (Piggotia). 637. aterrima (Dothiorella). 239. aterrima (Placosphæria). 246. atomispora (Phoma). 115. atomoides (Phoma). 160. Atomus (Phoma). 146. atra (Chætomella). 321. atra (Cryptomela). 760. atra (Cytospora). 257. atra (Sphæropsis). 296. Atragenes (Marsonia). 769. atramentaria (Diplodia). 352. atramentaria (Hendersonia). 439. atramentaria (Vermicularia). 227. atramentarium (Asteroma). 202. atrata (Diplodia). 331. atratum (Asteroma). 212. atrella (Chætophoma). 199. atrificans (Phoma). 137. atriplicina (Phoma). 140. Atriplicis (Phyllosticta). 54. Atriplicis (Septoria). 556. atro-cœrul eum (Didy mosporium). 63. atro-maculans (Phyllosticta). 52. atro-nitens (Cytospora). 262. atro-nitens (Piggotia). 637. atro-purpurea (Septoria). 549, atro-virens (Cytospora). 273.

atro-viridis (Myxormia). 734. atrum (Mclanconium). 754. atruni (Podosnorium). 301. Aucubæ (Ascochyta). 389. Aucubæ (Coniothyrium). 310. Aucubæ (Diplodia). 361. Aucubæ (Phoma), 115. Aucubæ (Phyllosticta). 30. Aucubæ (Septoria). 491. aucubicola (Ascochyta). 388. aucubicola (Diplodia). 344. aucubicola (Phyllosticta), 30. Aucupariæ (Phyllosticta). 7. aurantiaca (Sphæronæmella). 618. aurantiaca (Zythia). 614. aurantiacum (Gloeosporium). 717. Aurantii (Diplodia). 330. aurantiicola (Phyllosticta). 13. Aurantiorum (Glæosporium). 702. Aurantiorum (Phoma). 83, aurea (Lemalis). 672. aureum (Colletotrichum). 736. auriculata (Phyllosticta). Aurora (Cytospora). 262. autumnalis (Phyllosticta) autumnalis (Septoria), 527. australasica (Dendrophoma). 181. australasica (Sclerotiopsis). 184. australe (Coniothyrium). 311. australe (Cylindrosporium). 739. australe (Glœosporium). 709. australe (Myxosporium). 723. Australiæ (Cytospora). 256. Australiæ (Diplodia). 343. australis (Ascochyta). 385. australis (Hendersonula). 445. australis (Phyllosticta). 11. australis (Schizothyrella). 690. Avellanæ (Septoria). 503. Aviculariæ (Melasmia). 638. Azedarachis (Phyllosticta). 30.

baccæ (Phoma). 149.
Bacchi (Diplodia). 332.
bacillare (Fusicoccum). 248.
bacillaris (Asteromella). 183.
bacillaris (Phoma). 134.
bacteriiformis (Phyllosticta). 34.
Baculum (Phoma), 91.
Badhami (Septoria). 480.
Badhami (F. Fraxini (Septoria). 495.
Ballotæ (Asteroma). 210.

balloticola (Depazea). 64. Balsaminæ (Septoria). 514. Balsamitæ (Vermicularia), 229. Baptisiæ (Septoria), 508. Baptisiæ (Sphæropsis). 302. basicystis (Aschersonia). 619. basitrichum (Cytosporium). 470. Batatæ (Phyllosticta). 51. bataticola (Phyllosticta). 51. Bauhiniæ (Phyllosticta), 11. Belangerii (Phoma). 169. bellidicola (Septoria), 548. Bellidis (Septoria). 548. Beltranii (Phyllosticta). 13, bellulum (Myxosporium). 727. Bellunensis (Septoria). 563. Bellynckii (Phoma), 154. Bellynckii (Septoria). 573. berberidina (Ascochyta). 395, Berberidis (Melasmia). 638. Berberidis (Phoma). 72. Berberidis (Phyllosticta). 26. Berberidis (Septoria). 475. berberina (Phoma). 72. Bérengeriana (Dothiorella). 238. Bergii (Coniothyrium). 307. Bergii (Phoma). 115. Berkeleyi (Glæosporium). 767. Berkelevi (Phoma). 134. Berkeleyanum (Camarosporium). 464. Berteroæ (Septoria). 519. Besseyi (Septoria). 495. Betæ (Phyllosticta). 54. Betæ (Septoria). 556. Betonicæ (Phoma). 130. Betulæ (Asteroma). 208. Betulæ (Dinemasporium). 686. Betulæ (Diplodia). 355. Betulæ (Dothiorella). 236. Betulæ (Gloeosporium). 714. Betulæ (Leptothyrium). 627. Betulæ (Septoria). 505. Betularum (Gloeosporium) 714. betulicola (Septoria). 506. betulina (Cytospora). 259. betulina (Cryptomela). 761. betulina (Libertella). 745. betulina (Micropera). 605. betulina (Phyllosticta). 32. betulina (Septoria). 506. betulinum (Asterosporium). 782. betulinum (Gelatinosporium). 596.

betulinum (Gloeosperium). 715. betulinum (Melanconium). 756. betulinum (Prosthemium). 444. betulinum (Thyrsidium) 762. Beverincki (Coryneum). 774. bicolor (Melanconium). 755. bicolon (Mycogala), 185. bicornis (Pestalozzia). 797. bicristatum (Dinemasporium). 684. bicuspidata (Aposphæria), 171. Bidentis (Septoria), 547. biforme (Coniothyrium). 318. biformis (Sphæropsis). 298. bifrons (Sphæria, Cryptosphæria). Bignoniæ (Phyllosticta). 28. biocellata (Phoma). 167. biseptata (Hendersonia). 419. Bivonæ (Darluca). 411. Bolleana (Phoma). 104. Bolleana (Phyllosticta). 15. Bolleana (Septoria). 487. hombycina (Ascochyta). 389. bonariensis (Phyllosticta). 36. bonariensis (Septoria). 536. boninensis (Septoria). 507. Bonordenii (Libertella). 746. Bonordenii (Sphæropsis). 301. borbonicum (Coniothyrium). 318. botrya (Dothiorella): 242. botryoides (Leptothyrium). 627. botryosporum (Thyrsidium). 762. botryosphærioides (Coniothyrium). 312. botryosphærioides (Dothiorella). 242. Boudieri (Cornularia). 599, Bowlesiæ (Septoria). 531. brachiatum (Entomosporium). 657 Brachypodii (Septoria). 563. brachyspora (Chætomella). 322. brachyspora (Diplodia) 329. brachyspora (Septoria). 500. brachysporum (Myxosporium) 727. brachyurum (Coryneum). 779. bractearum (Septoria), 515. brasiliensis (Sphæropsis). 305. Brassicæ (Ascochyta). 397. Brassicæ (Asteroma). 209. Brassicæ (Leptothyrium). 632. Brassicæ (Phoma). 119. Brassicæ (Phyllosticta). 38. Brassicæ (Rhopalidium). 801. Brassicæ (Zythia). 615.

brevipes (Pestalozzia). 788.

brevipes (Phoma), 160. brevis (Ephelis). 691. brevis (Stilbospora). 771. breviseta (Pestalozzia), 787. brevispora (Ceuthospora). 279. breviuscula (Rhabdospora). 580: Brissaceana (Septoria) Bromi (Septoria). 562. Broussonetiæ (Phoma). 95. Brunaudiana (Aposphæria). 170. Brunaudiana (Hendersonia). 432. Brunaudiana (Rhabdospora). 590. brunnea (Sphæropsis). 300. brunneola (Phoma). 160. brunneola (Septoria), 573. brunneo-fincta (Phoma).' 152. Brunneo-viride (Sphæronæma), 186. Bryoniæ (Sacidium). 652. Buddlejæ (Septoria). 498. Buffoniæ (Phylctæna): 594. Bullaria (Phragmotrichum). '766. bullata (Oncospora). 691. bullata (Stilbospora). 766. Bumeliæ Septoria). 494. Bupleuri (Ascochyta). 400. Bupleuri (Asteroma). 211. Bupleuri (Phyllosticta). 46. Bupleuri (Septoria). 529. bupleuricola (Septoria) 529. buxella (Diplodia). 349. Buxi (Blennoria). 730. Buxi (Cytospora). 257. Buxi (Diplodia). 360. Buxi (Phacidium) 499. Buxi (Sphæria). 105. buxicola (Depazea). 24. buxicola (Diplodia). buxina (Ascochyta). 393. buxina (Phyllosticta). 24.

Cacaliæ (Asteroma). 211.
Cacti (Phoma). 138.
Cacti (Stilbospora). 773.
cæspitosa (Dothiorella). 238.
cæspitosa (Hyalosporella). 323.
cæspitosa (Stagonospora). 447.
cæspitosum (Sphæronæma). 187.
cæspitosum (Sphæronæma). 189.
cæspitulosa (Rhabdospora). 587.
cæspitulosum (Coniothyrium). 311.
Cajadensis (Septoria). 522.
Calabæ (Pestalozzia). 788.

Calami (Cryptosporium). 744. Calami (Diplodia). 372. Calami (Leptothyrium). 635. Calcitrapæ (Rhabdospora). 593. calathiformis (Ceuthospora). 278. Calathiscus (Aposphæria). 171. Callæ (Septoria). 569. Callicarpæ (Coniothyrium). 311. Callunæ (Pestalozzia), 801. Callunæ (Phoma): 85. Calotropidis (Phoma). 114. calthæcola (Depazea). 62. Calveanthi (Ascochyta). 392. Calycanthi (Didymosporium). 765. Calveanthi (Diplodia), 342, Calveanthi (Phoma). 112. Calvcanthi (Phyllosticta). 9. Calveanthi (Septoria), 489, calycina (Septoria). 517. Calystegiæ (Ascochyta). 402. Calystegiæ (Phyllosticta). 51. Calvstegiæ (Septoria). 537. Camellize (Leptostroma). 642. Camelliæ (Phyllosticta). 25. Caminus (Sphæronæma). 197. Campanulæ (Phyllosticta). 51. Campanulæ (Septoria), 544. campanulatum (Angiopoma). 442. Camphorosmæ (Camarosporium). 468. canadensis (Discella). 688. candida (Septoria). 503. Candollei (Phoma). 105. cannabina (Septoria). 557. Cannabis (Phyllosticta). 53. Cannabis (Septoria). 557. capillare (Sphærographium). 597. capitata (Cytospora). 254. capitata (Pestalozzia). 796. Capparidis (Phyllosticta). 39. Capparidis (Septoria). 521. Capreæ (Asteroma). 208. Capreæ (Cytospora). 262. Capreze (Leptostroma) 640. Capreæ (Septoria). 501. Caprifolii (Phyllosticta). 19. Caprifolii (Rhabdospora). 580. Capsici (Labrella). 649. Capsularum (Glœosporium). 718. capsularum (Phoma), 147. capsulicola (Phyllosticta). 48. Caraganæ (Melasmia). 638. carbonacea (Cytospora). 260.

carbonacea (Discella). 687. carbonacea (Vermicularia). 224. carbonaceum (Pilidium). 689. Cardamines (Septoria). 520. Cardunculi (Septoria): 550. Caricæ (Ascochyta). 394. Caricis (Cryptomela), 760. Caricis (Phoma). 164. Caricis (Phyllosticta). 61. Caricis (Septoria). 566. Caricis (Stagonospora). 452. caricicola (Septoria). 566. caricicolum (Actinothecium). 639. caricina (Diplodia). 373. caricina (Phoma). 164. caricinella (Septoria). 566. caricinum (Leptostroma). 645. Caricum (Amerosporium): 682. Caricum (Neottiospora). 216. Carissæ (Phyllosticta), 36. carneum (Myxosporium), 726. carphosperma (Cytospora). 274. carpinea (Ascochyta). 393. carpinea (Depazea). 64. carpinea (Phyllosticta). 32. carpinea (Sphæropsis). 299. Carpini (Diplodia). 353. Carpini (Didymosporium). 763. Carpini (Fusicoccum). 250. Carpini (Glœosporium). 712. Carpini (Hendersonia). 440. Carpini Phyllosticta). 32. carpinicola (Hendersonia). 440. carpogena (Ascochyta). 402. carpogena (Phoma). 156. carpogenum (Glœosporium). 719. carpophila (Phoma). 155. carpophila (Septoria), 573. carpophilum (Leptothyrium). 632. carthagenensis (Ascochyta). 395. Carthusianorum (Septoria). 516. Carthusianum (Septoglocum). 802. Caryæ (Sphæropsis). 299. Cassiæ (Phoma). 66. Cassinopsidis (Diplodia). 333. cassiocarpa (Phoma). 147. Castagnei (Conidtyrium). 309. C. tagnei (Couturea). 442. Castagnei (Hendersonia). 439. Castagnei (Marsonia). 768. Castagnei (Pestalozzia). 793. Castagnei (Phoma). 108.

Castaneæ (Asteroma). 208. Castaneæ (Diplodia). 353. Castaneæ (Leptothyrium). 628. Castaneæ (Septoria). 504. castaneum (Fusicoccum). 249. castaneus (Coccobolus). 692. castanicola (Septoria). 504. castanicola (Sphæria). 628. castanicolum (Steganosporium). 805. cassubica (Diplodina). 412. Catalpæ (Chætophoma). 199. Catalpæ (Diplodia). 347. Catalpæ (Phoma). 155. Catalpæ (Septoria). 558. Catalpæ (Sphæronæma). 189. Catappæ (Diplodia). 343. catenulata (Phoma). 142. Catesbeyi (Chætophoma). 199. Cathartici (Phyllosticta). 14. cathartica (Septoria). 482. Cathartocarpi (Diplodia). 377. Cattanei (Septoria). 477. caudata (Cryptostictis). 444. caudata (Rhabdospora). 593. caulina (Chætodiplodia): 374. caulicola (Diplodia). 368. caulicola (Pestalozzia). 795. caulicola (Rhabdospora). 592. caulicola (Stagonospora). 448. caulincola (Phoma) 143. caulincolum (Actinothyrium). 658. caulium (Ascochyta). 594. caulogena (Rhabdospora). 590. caulographa (Phoma). 126. Causcoræ (Phoma). 131. cava (Aposphæria). 174. cavernosum (Steganosporium). 805. Ceanothi (Cytospora). 273. cedrina (Labrella). 648. Celastri (Botryodiplodia). 379. Celastri (Leptothyrium). 631. celastrina (Depazca). 64. celastrina (Sphæropsis). 294. cellulosum (Melanconium). 752. cellulosum (Steganosporium). 804. Celosiæ (Phyllosticta). 54. Celtidis (Didymosporium). 764. Celtidis (Diplodia). 349. Celtidis (Septoria). 499. celtifolia (Hendersonia). 429. Celtis-gallæ (Septoria). 499. cenisia (Cytospora). 271.

Centaureæ (Septoria). 551. Centranthi (Phoma). 137. Centranthi (Rabdospora). 592. Cephalanthi (Ascochyta). 392. cerasella (Phyllosticta). 4. Cerasi (Asteroma) 202. Cerasi (Asteroma). 206. Cerasi (Coniothyrium). 307. Cerasi (Sphæronæma). 187. cerasina (Sphæropsis). 293. cerasicola (Cytospora). 255. cerasicola (Phyllosticta). 6. cerasicolum (Asteroma). cerasina (Septoria). 489. cerasinum (Melanconium). 750. Cerasorum (Diplodia), 341. Cerastii (Septoria). 518. Ceratoniæ (Phyllosticta). 11. Ceratoniæ (Septoria). 484. ceratophora (Cytospora). 268. ceratosperma (Sphæria). 265. ceratospora (Stilbospora). 783. Cercidis (Septoria). 484. cereale (Leptostroma). 643. Cerei (Camarosporium). 463. cernuum (Sphæronæma). 195. cerviculata (Cytosporina). 602. Cesatii (Cicinnobolus). 216. Cesatii (Haplosporella). 325. Cestri (Septoria). 498. ceuthosporoides (Septoria), 490. Cichoriacearum (Phoma). 124. Cichorii (Leptostroma). 647. ciliatum (Dinemasporium). 684. cineta (Cytospora). 254. cincta (Diplodia). 355. cincta (Phoma). 114. cincta (Sphæronæmella). 618. cinctum (Fusicoccum). 249. cinctum (Glœosporium). 721. cinctum (Leptothyrium). 628. cinctum (Melanconium). 754. cinerea (Phoma). 117. cinerea (Sphæropsis). 293. cinerescens (Phoma). 96. cinerescens (Septoria). 476. Cinnamomi (Phoma). 111. circinans (Asteroma). 206. circinans (Cryptosporium). 744. circinans (Diplodia). 371. circinans (Hendersonia). 431. circinans (Leptothyrium). 712.

circinans (Pirostoma). 653. circinans (Sphæronæma). 193. circinans (Vermicularia). 233. circumscissa (Phyllosticta). 6. circumscripta (Labrella). 649. circumscripta (Phoma). 116. cirratula (Phoma). 115. firsii (Phyllosticta). 44. Cirsii (Rhabdospora). 592. Cirsii (Septoria). 551. Cisti (Phyllosticta). 25. cistina (Phyllosticta). 25. Citri (Ascochyta). 390. Citri (Chætophoma). 200. Citri (Diplodia). 330 Citri (Discula). 675. Citri (Phoma). 84. Citri (Septoria). 477. Citri (Sphæropsis). 296. citrinella (Zythia). 614. citrinula (Næmospora). 747. Citrulli (Phoma). 149. chænomelina (Phyllosticta). 5. chætomioides (Chætodiplodia). 375. Chætomium (Fusarium). 232. chætostroma (Amerosporium). 682. Chailletii (Phragmotrichum). 806. Chamænerii (Septoria). 513. chartarum (Phoma). 168. chartarum (Sacidium). 650. charticola (Phoma). 168. charticolum (Camarosporium). 469. Cheiranthi (Septoria). 521. Cheiranthorum (Phyllosticta). 38. Chelidonii (Septoria). 521. Chenopodii (Phyllosticta). 45. Chenopodii (Sacidium). 652. Chenopodii (Septoria). 556, Chenopodii (Vermicularia). 228. Cherimoliae (Ascochyta). 391. chilensis (Cytospora). 268. Chimonanthi (Diplodia). 342. Chionanthi (Diplodia). 347. Chionanthi (Phyllosticta), 29. Chionanthi (Septoria). 496. Chloræ (Ascochyta). 401. Chloræ (Rabdospora). 591. chlorinum (Steganosporium). 805. chlorogea (Cytospora). 274. chlorospora (Ascochyta). 386. chlorostroma (Haplosporella). 323. chrysosperma (Cytospora). 260.

cladoniscum (Sphæronæma). 190. clandestina (Diplodia). 333. clandestina (Phoma). 169. clandestina (Rabenhorstia). 244. clavata (Pestalozzia). 796. clavatum (Sphæronæma). 189. clavatum (Steganosporium). 806. clavuligera (Phoma). 69. clematidea (Diplodia). 368. clematidina (Ascochyta). 396. Clematidis (Diplodia). 368. Clematidis (Phoma). 118. Clematidis (Septoria). 524. Clematidis-flammulæ (Septoria). 524 Clematidis-rectæ (Septoria). 524. clethricola (Phyllosticta). 24. clethricola (Sphæropsis). 298. clethrincolum (Sphæronæma). 189. Clintonii (Peckia). 218. Clintonii (Sphæropsis). 294. clitoricarpa (Phoma). 147. clypeata (Aposphæria). 170. clypeata (Cytospora), 252. clypeata (Discosia). 654. clypeosphærioides (Leptothyrium). 631. cocciferum (Melanconium). 756. coccinea (Cytospora). 272. Cocculi (Phyllosticta). 29. cococarpa (Diplodia). 372. cocoina (Phoma). 156. Cocos (Phyllosticta). 59. cænanthicola (Phoma). 151. comobitica (Cytospora). 264. Colchici (Cylindrosporium), 739. Colchici (Septoria). 570. Colchici (Vermicularia). 232. collabascens (Aposphæria). 171. collabens (Aposphæria), 176. collabens (Phoma). 131. collapsa (Stagonospora). 448. colliculosum (Coniothyrium). 314. colliculosum (Sphæronæma). 193. coloratum (Coniothyrium), 315. coloratum (Myxosporium). 722. columnare (Sphæronæma). 187. Coluteæ (Camarosporium). 460. Coluteæ (Depazea, Phyllosticta). 64. Coluteæ (Phoma). 67. comatum (Sphæronæma). 196. commutata (Hendersonia). 436. compacta (Botryodiplodia). 379. compacta (Pestalozzia). 795.

campacta (Vermicularia). 222. compactum (Coryneum). 776. compactum (Steganosporium). 804. complanata (Phlyctæna). 594. complanata (Phoma). 126. Compositarum (Camarosporium). 467. compressa (Botryodiplodia). 379. compressa (Zythia). 616. compta (Pestalozzia). 798. compta (Septoria). 508. comptum (Asteroma). 205. concava (Ceuthospora). 280. concava (Sphæria, Depazea). 397. concentrica (Pestalozzia). 797. concentrica (Phyllosticta). 21. concentrica (Vermicularia). 232. concentricum (Coniothyrium). 317, concentricum (Glosporium). concinnum (Asteroma). 215. coneglaneusis (Phoma). 81. concolor (Coryneum). 780. concors (Sphæronæma). 198. confervoides (Asteroma). 207. confluens (Botryodiplodia). 377. confluens (Coryneum). 779. confluens (Cryptomela). 761. confluens (Cryptosporium). 761. confluens (Leptostroma). 640. confluens (Phoma). 80. conforme (Sphæronæma). 187. confusum (Asteroma). 214. congesta (Botryodiplodia). 378. congesta (Dothiorella). 241. congesta (Pestalozzia). 786. conglobata (Sphæropsis). 299. conglomeratum (Melanconium). 754. conglutinata (Excipulina). 689. conglutinatum (Didymosporium). 765. congregatum (Amerosporium). 681. conica (Næmospora). 749. conica (Rabenhorstia). 243. conica (Trullula). 733 conicum (Cryptosporium 741. conicum (Sphæronæma). 194. conigena (Diplodia). 359. conigena (Pestalozzia). 792. conigena (Septoria). 559. conigenum (Glœosporium). 720. conigenum (Leptothyrium). 632. connata (Haplosporella). 324. concideum (Coniothyrium). 316. conorum (Coniothyrium). 314.

conorum (Hendersonia). 430. conorum (Phoma). 150. conorum (Sirococcus), 217. consimilis (Diplodia). 355. consocia (Septoria). 521. consociata (Diplodia). 357. consors (Aposphæria). 175. consors (Diplodia), 362, consors (Phoma). 91. constricta (Hendersonia). 442. continua (Rhabdospora). 593. controversa (Phoma). 81. Convallariæ (Phoma), 161. Convallariæ (Septoria). 573. Convolvuli (Septoria). 536. Cookeanum (Camarosporium). 466. Cookei (Ceuthospora). 278. Cookei (Phoma). 80. Cookei (Phyllosticta). 25. coprophila (Neottiospora). 217. coprophilum (Coniothyrium). 319. Coptidis (Septoria). 526. coptina (Vermicularia). 231. corallinum (Asteroma). 215. Corchori (Diplodia). 339. Corchori (Næmospora). 747. cordobensis (Phoma). 128. Cordobensis (Rhabdospora). 579. Cordylines (Phoma). 162. Coriariæ (Leptothyrium). 630. Coriariæ (Septoria). 380. corneum (Sphæronæma). 195. Corni (Asteroma). 207. Corni (Hendersonia). 421. Corni (Phoma). 86. Corni (Phyllosticta). 21. Corni (Septoria). 492. Corni-albæ (Coryneum). 774. Corni-maris (Septoria). 492. Corni-Suecicæ (Phoma). 86. cornicola (Ascochyta). 388. cornicola (Hendersonia). 427, cornicola (Phyllosticta). 21. cornicola (Septoria). 492. cornutum (Sphæronæma). 195. coronatum (Cryptosporium). 742. coronatum (Fusicoccum). 250. coronatum (Sphæronæma). 192. Coronillæ (Camarosporium). 460. Coronillæ (Phoma). 67. corrientina (Phoma). 163. corrugata (Placosphæria). 246.

corticale (Didymosporium). 765. corticalis (Sphæropsis). 302. corticicola (Phoma). 98. Corticis (Phoma). 76. corticolum (Crocicreas). 184. corvinum (Amerosporium). 682. corylaria (Hendersonia), 429. corylaria (Phyllosticta). 32. Coryli (Ascochyta). 393. Coryli (Diplodia). 353. Coryli (Glœosporium). 713. Coryli (Labrella). 648. Coryli (Leptothyrium). 626. Coryli (Phyllosticta). 31. Corvli (Sphæronæma). 192. corylina (Phoma). 99. corylina (Septoria). 503. corylinum (Leptothyrium). 626. coryneoidea (Hendersonia). 424. coryneoidea (Pestalozzia). 799. coryneoides (Cytospora). 277. Corynocarpi (Septoria). 475. costatum (Peptostroma). 642. Cotoneastri (Cytospora). 255. Cotoneastri (Micropera). 605. Cowdelli (Diplodiella). 377. crassicollis (Dendrophoma). 180. crassipila (Vermicularia). 222. crastophila (Hendersonia). 438. crastophila (Phyllosticta). 61. Cratægi (Actinonema). 408. Cratægi (Ascochyta). 386. Cratægi (Diplodia). 340. Cratægi (Phoma). 78. Cratægi (Phyllosticta). 6. Cratægi (Phyllosticta). 6. Cratægi (Septoria). 486. cratægicola (Phyllosticta). 6. crateriformis (Phoma). 112. crateriformis (Septoria). 496. Crepini (Phoma). 97. Crepinianum (Coniothyrium). 315. crispans (Depazea). 65. crocea (Næmospora). 747. croceola (Næmospora). 746. croceum (Myxosporium). 727. crocophila (Phoma). 158. Crucianellæ (Phoma). 138. Cruciatæ (Septoria). 543. cruciatum (Camarosporium). 464. cruciferum (Dinemasporium). 686. cruenta (Phyllosticta). 58.

crustacea (Diplodiella). 376. crustacea (Septoria). 500. crypta (Rynchophoma). 414. cryptica (Phoma). 69. Cryptomeriæ (Pestalozzia). 792. Cryptosporium (Melanconium). 758. cubense (Actinothyrium). 658. cubensis (Aschersonia). 620. Cucurbitacearum (Phoma). 148. Cucurbitacearum (Phyllosticta). 52. Cucurbitacearum (Septoria). 527. Cucurbitæ (Vermicularia). 232. cucurbitalis (Phoma). 149. Cucurbitarum (Glæosporium). 720. culmicola (Hendersonia). 437. culmicola (Hendersonia). 437. culmicola (Phoma). 165. culmigena (Vermicularia). 235. culmigenum (Didymosporium). 763. culmifraga (Vermicularia). 234. culmiseda (Hendersonia). 437. cupressina (Diplodia). 358. cupressina (Pestalozzia). 792. Curreyi (Cytospora). 269. Currevi (Macrodiplodia). 374. Currevi (Phyllosticta). 60. Curtisiana (Septoria). 561. Curtisii (Stagonospora). 451. curvata (Septoria). 484. curvatum (Gloeosporium). 707. cuspidata (Ypsilonia). 216. cyanostroma (Botryodiplodia). 379. Cycadis (Chætophoma). 201. Cyclaminis (Septoria). 533. Cyclantheræ (Septoria). 527. cyclospora (Phoma). 141. Cydoniæ (Diplodia). 340. Cydoniæ (Glœosporium), 705. Cydoniæ (Hendersonia). 428. Cydoniæ (Phoma). 75. Cydoniæ (Phyllosticta). 5. Cydoniæ (Septoria). 487. Cydoniæ (Sphæropsis). 294. cydonicola (Hendersonia). 428. cydonicola (Septoria). 487. cylindrica (Sphæria). 193. cylindricum (Sphæronæma). 190. cylindrocarpa (Stagonospora). 450. cylindroides (Sirococcus). 217. cylindrospermum (Glosporium). 715. cylindrospora (Phoma). 113. Cymbalariæ (Depazea, Phyllosticta). 63. Cymbalariæ (Septoria). 535. cymbalarina (Septoria). cymbispora (Phoma). 85. cynanchica (Rhabdospora). 591. Cynaræ (Phyllosticta). 45. Cynodontis (Septoria). 562. Cynosbati (Cryptostictis). 443. cyparissa (Diplodia). 356. Cypripedii (Depazea). 65. cytisella (Phyllosticta). 10. cytisellum (Coniothyrium). 308. Cytisi (Glœosporium). 705. Cytisi (Leptothyrium). 631. Cytisi (Phyllosticta). 10. Cytisi (Septoria). 485. cytosporoides (Dendrophoma). 180. cytosporoides (Diplodia). 348.

Dahliæ (Cytospora). 277. Dahliæ (Phoma). 169. dalmatica (Phoma). 156. daphnea (Phoma). 115. Daphnes (Marsonia). 769. Daphnes (Septoria). 498. Darlingtoniæ (Discula). 676. Dasylirii (Phoma). 159. Daturæ (Ascochyta). 402. Daturæ (Septoria). 536. dcalbata (Septoria). 487. dealbata (Septoria). 502. Debeauxiana (Phoma), 160. Debeauxii (Phoma). 146. Debeauxii (Septoria). 567. decipiens (Coniothyrium). 309. decipiens (Coryneum). 779. decipiens (Cytospora). 263. decipiens (Dinemasporium). 685. decipiens (Hendersonia). 421. dicipiens (Næmospora). 747. decipiens (Phoma). 126. decipiens (Rhabdospora). 582. decipiens (Sphæropsis). 303. decolorans (Phoma). 123. decolorata (Pestalozzia) 784decorticans (Cytospora). 266. decorticans (Micropera). 606. decorticans (Phoma). 148. decorticans (Sphæronæma). 190. decorticata (Diplodiella) 376. deflectens (Diplodia). 345. deflectens (Discosia). 655. deformans (Sphæronæma). 196.

deformis (Diplodina) 423. deformis (Rabenhorstia). 244. Degueliæ (Neurœcium). 692. Delastrei (Marsonia) 770. delicatula (Stagonospora). 448. delicatulum (Asteroma). 213. delitescens (Phoma). 105. Delphinella (Septoria). 525. Dematium (Vermicularia). 225. demersa (Sphæropsis). 293. demissa (Phoma). 118. dendritica (Phoma). 108. dendriticum (Asteroma). 205. denigrata (Phoma). 130. densipes (Phoma). 83. densiuscula (Aposphæria) 173. densiuscula (Ascochyta). 395. deusta (Phoma). 155. densum (Myricephalum). 761. Dentariæ (Phoma). 119. denudata (Vermicularia). 234. depazeiformis (Pestalozzia). 801. depazeoides (Diplodia). 372. depazeoides (Robillarda). 408. deplanatum (Cryptosporium). 744. deplanatum (Myxosporium). 725. depressa (Phoma). 82. depressa (Phoma). 99. depressum (Coryneum) 779. depressum (Glæosporium). 702 Deodaræ (Diplodia). 355. desciscen (Septoria). 530. Desmazieri (Hendersonia). 440. Desmazieri (Melanconium). 751. Desmazieri f. Phaseoli (Phoma). 120. Desmazieri (Septoria). 491. Desmonci (Phoma) 157. destructiva (Phyllosticta). 40. destructiva f. Hederæ (Phyllosticta). 20. destruens (Phyllosticta). 31. destruens (Phyllosticta). 768. detospora (Septoria). 576. detrusa (Phoma). 72. devastatrix (Phoma). 132. Dianæ (Rhabdospora). 586. Dianthi (Ascochyta). 398. Dianthi (Asteroma) 204. Dianthi (Dinemasporium) 684. Dianthi (Diplodina) 412. Dianthi (Phyllosticta). 43. Dianthi (Septoria). 516. dianthicola (Septoria). 517.

Diapensiæ (Septoria). 527. diaphana (Sphæronæmella). 617. diaporthoides (Rhabdospora). 584. diatrypa (Cytospora). 258. diatrype (Diplodia) 367. diatrypea (Phoma). 86. Dictamni (Phoma). 137. Dictamni (Septoria). 514. didyma (Septoria). 501. diffluens (Melanconium). 756. difformis (Aposphæria). 172. difformis (Cytospora). 265. difformis (Septoria) 493. diffusum (Rhabdosporium). 762. D'g'talis (Ascochyta), 403. Digitalis (Phyllosticta). 47. Digitalis (Septoria). 534. dilatatum (Asteroma). 210. Dilleniana (Phoma). 122. dimera (Septoria). 517. Dioscoreæ Phyllosticta). 58. Diospyri (Asteroma). 207. Diospyri (Centhospora). 280. Diospyri (Phoma). 90. Diospyri (Sphæropsis). 298. Diplodiella (Coniothyrium). 310. diplodioides (Hendersonia). 422. diptodioides (Phoma). 81. Dipsaci (Septoria). 553. disciforine (Coryneum). 778. disciforme (Coryneum). 778. disciformis (Phyllosticta). 12. discoidea (Discella). 675. discoideum (Leptothyrium). 630. discors (Phyllosticta). 51. discosiæformis (Phoma), 109. discosioides (Leptostroma). 641. discosioides (Phoma). 114. dispar (Hendersonia). 439. dispersa (Excipula). 666. dispersellum (Coniothyrium), 314. disseminatum (Melanconium). 757. disseminata (Pestalozzia), -784. disseminata (Septoria). 488. dissepta (Phlyctæna) 596. ditior (Diplodia). 352. diversa (Diplodiella). 377. diversispora (Hendersonia). 431. Dolichi (Septoria) 509. delichopus (Phoma). 83. dolosa (Cytospora). 260. dolosa (Stagonospora). 455.

domestica (Phoma). 81. domestica (Phoma). 104. domingense (Piptostomum). 183. donacella (Phoma), 165. donacina (Ascochyta). 406. donacina (Hendersonia). 438. donacina (Septoria). 564. donacina (Sphæropsis). 304. donacinum (Leptostroma). 642. Donacis (Asteroma). 215. Donacis (Hendersonia). 438. Donacis (Leptostroma). 642. Donacis (Melanconium). 760. Donacis (Septoria). 565. Donckelæri (Phyllosticta). 59. Doronici (Septoria). 548. Dothidea (Melanconium), 752. dothideoides (Haplosporella). 324. dothideoides (Placosphæria). 246. Dracænarum (Sphæropsis). 304. dracænicola (Diplodina). 413. dracænicolum (Myxosporium). 728. Dracocephali (Septoria). 540. Draconis (Phyllosticta). 60. Drupacearum (Micropera). 605. dryadea (Diplodia). 361. Dryadcarum (Leptothyrium). 770. Drymios (Septoria). 485. dryina (Phoma). 96. dryina (Septoria). 505. dryinum (Leptothyrium). 628. dubia (Sphæria). 617. dubium (Coryneum). 781. Dubyi (Cytospora). 270. Dulcamaræ (Diplodia). 366. Dulcamaræ (Hendersonia). 433. Dulcamaræ (Phoma). 127. Dulcamaræ (Phyllosticta). 49. Dulcamaræ (Septoria). 535. dulcamarina (Phoma). 127. duplex (Aschersonia). 620. Durandiana (Phoma). 140, durella (Cytospora). 266. Duriæi (Amerosporium). 681. Duriæi (Sacidium). 651. durissimum (Leptostroma). 641. duriuscula (Cytospora). 266.

Ebuli (Phoma). 132. Ebuli (Septoria). 543 ebulicola (Phoma). 132. Ebuli (Phyllosticta). 57. chulina (Phoma). 132. echinatum (Sphærographium). 597. Edgeworthiæ (Diplodia). 348. Edgeworthiæ (Phoma). 80. effiguratum (Coryneum). 781. effugiens (Hysteromyxa). 622. effusa (Discula). 676. effusa (Hendersonia). 439. effusa (Phoma). 144. effusa (Septoria). 489. effusa (Vermicularia). 222. effusum (Didymosporium). 764. effusum (Hypodermium). 729. effusum (Melanconium). 758. Ehrhartii (Phyllosticta). 46. Elæagni (Ascochyta). 392. Elæagni (Diplodia). 348. Elæagni (Phoma). 114. elæina (Cytospora). 272. clæophila (Diplodia). 346. clæospora (Diplodia). 369. elæospora (Septoria). 495. elconema (Couturea). 442. Elaterii (Ascochyta). 403. elegans (Asteroma). 213. clegans (Cytospora). 267. elegans (Endobotrya), 470. elegans (Hendersonia). 436. elegans (Zythia). 615. elevatum (Melanconium). 753. elevatum (Steganosporium). 777. elliptica (Discosia). 656. elliptica (Phoma). 137. ellipticum (Melanconium). 754. Ellisii (Ascochyta). 389. Ellisii (Diplodina). 412. Ellisii (Myxosporium), 724. Ellisii (Sphæropsis). 300. elongata (Phoma). 158. emaculata (Septoria). 510. Embryopteridis (Diplodia). 361, Emeri (Ascochyta). 385. Emeri (Septoria). 485. eminens (Hendersonia). 429. Empetri (Excipula). 668. Endiviæ (Septoria). 551. endogena (Phoma). 152. endolenca (Phoma). 98. endophila (Phoma). 96. endophylla (Cytospora). 277. endorhodia (Phoma). 124. enteroleuca (Phoma), 75.

entomogenea (Phoma). 151. Ephedræ (Rhabdospora). 585. Ephedræ (Vermicularia). ephedrina (Rhabdospora). 585. epicalamia (Stagonospora), 455. epicarpii (Gloosporium). 720. epiearpii (Septoria). 559. epicæcidium (Sphæronæma). 198. epicocos (Diplodia). 372. epidermidis (Excipula). 668. Enigejos (Septoria). 563. epiglæum (Sphæronæma). 197. epileuca (Aposphæria). 169. epileuca (Cytospora). 273. epileuca (Hendersonia). 441. Epilobii (Asteroma). 210, Epilobii (Phoma). 134. Epilobii (Septoria). 513. Epimedii (Phyllosticta). 39. epimyces (Coniothyrium). 319. epimyces (Sphæronæma). 197. Epipactidis (Septoria). 575. epiphylla (Phoma). 107. epiphylla (Vermicularia). 225. epiphyllum (Coryneum). 781. epiphyllum (Cryptosporium). 743. epitricha (Phoma). 168. epixyla (Cytospora). 265. epixyla (Vermicularia). 223. Equiseti (Amerosporium). 682. Equiseti (Asteroma). 215. Equiseti (Phoma). 168. Ericæ (Phoma). 85. Equiseti (Septoria). 576. ericeti (Cytospora). 273. Erdingeri (Depazea). 63. erigerontea (Septoria). 547. Erigerontis (Septoria). 547. Eriobotryæ (Diplodia). 362. Eriobotryæ (Phyllosticta). 5. criophora (Phoma). 154. errabunda (Phoma). 128. eructans (Diplodia). 353. erumpens (Colletotrichum). 735. erumpens (Didymosporium). 764. erumpens (Dothiorella). 242. erumpens (Excipula). 666. erumpens (Phoma). 117. Ervi (Phyllosticta). 43. Eryngii (Phoma). 126. Eryngii (Septoria). 532. Eryngii (Vermicularia). 227.

Erysimi (Phyllosticta). 39. Erysimi (Septoria). 520. erysiphoides (Phyllosticta). 28. erythræa (Næmospora). 747. Erythrææ (Phyllosticta). 56. erythrella (Phoma). 100. Erythrinæ (Pyrenochæta). 221. Erythronii (Ascochyta). 405. Erythronii (Septoria). 573. erythrostoma (Septoria). 496. Escalloniæ (Phoma), 90. Eucalupti (Coniothurium). 78. Eucalypti (Cryptosporium). 741. Eucalypti (Diplodia). 343. Eucalypti (Harknessia). 320. Eucalypti (Hendersonia). 425. Eucalypti (Pestalozzia). 785. Eucalypti (Phoma), 78. Eucalypti (Phyllosticta). 9. Eucalypti (Sphæronæma). 187. eucalyptica (Phoma). 78. eucalyptidea (Phoma). 109. Eucleæ (Pilidium), 689. Eugeniæ (Pestalozzia). 785. eumorpha (Dendrophoma). 182. eumorphum (Fusicoccum). 249. Eupatorii (Septoria). 546. eupatorina (Phyllosticta). 45. Euphorbiæ (Asteroma). 212. Euphorbiæ (Diplodia). 369. Euphorbiæ (Phoma). 141. Euphorbiæ (Septoria). 515. Euphorbii (Dothiorella). 242. eupyrena (Phoma). 127. eupyrena (Rhabdospora). 589. eupyrena (Vermicularia). 227. curoptea (Hendersonia). 424. eurotioides (Coniothyrium), 312. eurotioides (Muricularia). 218. eustaga (Phoma). 103. eustoma (Hendersonia). 436. evonymella (Phyllostieta). 15. Evonymi (Diplodia). 360. Evonymi (Diplodia). 333. Evonymi (Pestalozzia). 788. Evonymi (Phyllosticta). 15. Evonymi (Phoma). 71. Evonymi (Septoria). 482. Evonymi (Sphæria). 15. Evonymi (Stagonospora). 447. Evonymi-japonica (Septoria). 482. examinans (Septoria). 483.

excavata (Dothiorella). 237. Excecariæ (Septoria). 500. excelsa (Phoma). 74. exiguum (Colletotrichum). 735. eximia (Hendersonia), 441. exosporiodes (Pyrenochæta). 221. exotica (Septoria). 533. expansa (Septoria), 514. exigua (Hendersonia). 426. exigua (Phoma), 134. exserta (Phoma). 131. exsiceans (Gloeosporium), 713. extensa (Cytospora). 273. extensa (Diplodia). 331. exul (Phoma). 89. exulata (Septomyxa), 767.

Fabæ (Phyllosticta). 42. fabæformis (Sphæropsis). 296. Fagi (Excipula), 670. Fagi (Gleosporium). 713. Fagi (Papularia). 753. Fagi (Scolecosporium). 782. Fagi (Septoria). 503. faginea (Diplodia). 354. faginea (Libertella). 744. faginea (Psilospora). 680. falcatum (Cryptosporium). fallax (Phoma). 156. fallax (Phyllosticta). 13. fallax (Sphæropsis). 301. Falx (Rhabdospora). 582. familiaris (Phoma). 104. Farfaræ (Phyllosticta). 45. Farfaræ (Septoria). 545. Farlowianum (Fusicoccum). Farnesiana (Diplodia). 336. fasciculatum (Sphæronæma). 190. fenestratum (Steganosporium). 804. ferox (Pyrenochæta). 220. ferruginea (Cytospora). 266. ferruginea (Phoma). 143. ferrugineum (Cryptosporium). ferruginosa (Dothichiza). 672. fertilis (Cytospora). 261. Feuilleauboisiana (Ascochyta). fibricola (Ascochyta). 401. fibricola (Aposphæria). 176. fibricola (Diplodiella). 376. fibriseda (Anosphæria), 173. fibriseda (Diplodiella), 376. fibriseda (Rhabdospora), 586.

fibriseda (Sphæropsis). 295. fibrosum (Fusicoccum). 247. Ficariæ (Cylindrosporium). 737. Ficariæ (Glæosporium). 700. Ficariæ (Septoria). 522. ficariæcola (Septoria). 522. ficicola (Cytospora). 258. ficicola (Placosphæria). 246. Fiedleri (Hendersonia). 421. Filaginis (Phoma). 143. filamentosa (Phoma). 159. filicina (Leptostromella). 660. filicina (Vermicularia). 235. filicinum (Leptostroma). 645. Filipendulæ (Cylindrosporium). 738. Filipendulæ (Phyllosticta). 41. filipendulina (Phyllosticta). 41. filispora (Septoria). 569. Filum (Darluca). 410. fimeti (Dinemasporium). 686. firnicola (Phoma). 169. findens (Hendersonia). 425. fissa (Diplodia). 338. fissa (Hendersonia). 424. fibrisequa (Aposphæria). 172. Flammulæ (Septoria). 524. flava (Næmospora). 748. flavidula (Phyllosticta), 24. flavo-virens (Cytospora). 268. flavo-viridis (Sphæronæmella). 618. flexuosa (Rhabdospora). 582. floccosa (Cytospora). 254fœda (Chætophoma). 200. fcedans (Coniothyrium). 308. fœdans (Leptothyrium). 634. fœdans (Pestalozzia). 792. fœdata (Phoma). 104. Fæniculi (Diplodia). 365. fœniculina (Diplodia). 364. fœniculina (Phoma). 125. foliicola (Cytospora). 275, foliicola (Hendersonia). 430. foliicola (Tremella). 699. foliicolum (Coryneum). 780. foliicolum (Podisoma). 430. foliorum (Hendersonia). 427. folliculorum (Ascochyta). 404. folliculorum (Phoma). 155. foraminulatum (Leptothyrium). formosa (Prosthemiella). 803. Forsythiæ (Phyllosticta). 27. fovcolaris (Phoma). 72.

Fourcroyæ (Hendersonia). 435. Fourcroyæ (Phoma). 160. fusco-zonata (Phyllosticta). 8. Fragariæ (Ascochyta). 399, Fragariæ (Glæosporium). Fragariæ (Septoria). 511. fragaricola (Phyllosticta). 40. fragilis (Phoma). 147. fragilissimum (Leptothyrium). 636. Frangulæ (Diplodia). 334. Frangulæ (Phyllosticta). 15. Frangulæ (Phyllosticta). 14. Frangulæ (Septoria). 481. fraxinea (Dothiorella). 236. fraxinea (Phoma). 81. Fraxini (Botryodiplodia). 378. Fraxini (Piggotia). 637, Fraxini (Septoglœum). 802. Fraxini (Septoria). 495. Fraxini (Sphærographium). 598. Fraxini (Trullula). 732. fraxinicola .(Phyllosticta). 21. Friesii (Cytospora). 269. Friesii (Mastomyces). 456. frigidum (Asteroma). 204. frigidum (Glæosporium). 704. frondicola (Depazea). 712. frondicola (Sphæria). 502. fructigena (Hendersonia). 428. fructigena (Septoria). 558. fructigenum (Gloosporium). 718. fructigenum (Leptostroma). 642. Fuckelianum (Sphæronæma). 189. Fuckelii (Asteroma). 202. Fuckelii (Asteroma). 210. Fuckelii (Coniothyrium). 306. Fuckelii (Cytospora). 263. Fuckelii (Gloeosporium). 713. Fuckelii (Hendersonia), 437. Fuckelii (Phoma). 69. Fuckelii (Septoria). 545. Fuckelii (Sphæronæma). 19 Fuchsiæ (Pestalozzia). 790a Fuchsiae (Septoria). 513. fugax (Asteroma). 215. fugax (Cytospora). 263. fuliginosum (Pilidium). fullonum (Septoria). 553. fulvella (Diplodia). 352. fulvescens (Septoria). 510. funerea (Pestalozzia). 791. fumosa (Stilbospora). 773.

Index alphabeticus specierum.

fusarioides (Coryneum). 779. fusarioides (Hendersonia). 426. fusarioides (Melanostroma). 728. Fusarium (Cytosporina). 603. fusca (Chætophoma). 200. fusca (Libertella). 744. fusca (Phoma). 103. fusca (Phoma). 142. fuscata (Phoma). 123. fuscella (Septoria). 536. fuscidula (Aposphæria). 173. fuscidulum (Coniothyrium). 307. fusco-atrum (Coniothyrium). 311. fusco-maculans (Aposphæria). 174. iscum (Myxosporium). 725. tusicoccoides (Rhabdospora). 583. fusiforme (Mclanconium). 750. fusigera (Phoma). 77. fusisperma (Næmospora). 749. fusispora (Excipularia). 689.

Galegæ (Dothiorella). 242. Galegæ (Phoma). 121. galbulorum (Phoma). 151. Galeopsidis (Phyllosticta). 50. Galeopsidis (Septoria). 539. galericulatum (Fusicoccum). 250. Galii (Diplodina). 412. Galii (Excipula). 669. Galii (Placosphæria), 245. Galiorum (Camarosporium). 468. Galiorum (Septoria). 543. Galinsogæ (Septoria) 550. Gallæ (Sphæropsis). 300. Gallarum (Excipula). 670. Gallarum (Glososporium). 720. Galla. um (Phyllosticta). 10. gallicolum (Asteroma), 213. Garryae (Ascochyta). 392. Garryte (Phyllosticta). 24. Garryæ (Septoria), 500. Gei (Asteron 3). 209. Gei (Cylindrosporium). 738. Gei (Septoria). 510. gelatinosum (Dinemasporium), 685, geniculata (Phoma). 102. Genistie (Pestalozzia). 785. genistalis (Darluca). 410. Gentiante (Asteroma). 212. Gentianæ (Phoma). 120. Gentianæ (Septoria). 541. gentianæcola (Depazea). 62.

geographicum (Asteroma). 202. geographicum (Xyloma). 628. Georgina (Chatophoma). 200. Georginæ (Diplodia). 367. Geranii (Dilophospora). 601. Geranii (Septoria). 514. Geranii (Sphæronæma). 196. Geranii (Vermicularia). 226. Gerardiæ (Vermicularia). 230. germanica (Cytospora). 262. germanica (Phyllosticta). 24. giganteum (Crocicreas). 183. gigaspora (Stagonospora). 453. Gillesii (Phyllostieta). 57. Gilletiana (Septoria). 503. Glabræ (Hendersonia). 425. Gladioli (Hendersonia). 435. Gladioli (Phoma). 159. Gladioli (Septoria). 574. glandicola (Ceuthospora). 278. glandicola (Diplodia). 361. glandicola (Excipula). 668. glandicola (Phoma). 151. glandicola (Robillarda). 793. glandulosa (Dothiorella). 240. glandulosa (Phoma). 117. glauca (Depazea, Phyllosticta). 64. Glechomæ (Leptostroma), 647. Glechomæ (Phyllosticta). 50. Gleditschiæ (Diplodia). 335. Gleditschiæ (Hendersonia). 420. Gleditschiæ (Phoma). 66. Gleditschiæ (Sacidium). 651. Gleditschiæ (Sphæropsis). 147. gleditschiæcola (Sphæropsis). 292. globigera (Cytospora). 255. globosa (Excipula). 666. globosum (Melanconium). 750. Globulariæ (Phyllosticta). 56. Globulariæ (Septoria). 537. globuliferum (Coniothyrium). 308, globulosa (Diplodia). 357. globulosa (Phyllosticta), 34. glæosporioides (Colletotrichum). 735. glæosporioides (Fusicoccum). 249. gleeosporioides (Phoma). 116. glomerata (Aposphæria). 175. glomeratum (Sphæronæma). 191. glomerosa (Phoma). 111. glomerulatum (Coniothyrium). 314. glomerulatum (Leptothyrium). 633. gloriosa (Phoma). 159.

glumarum (Septoria). 561. glutinatum (Melanconium). 757. Glycines (Phyllosticta). 11. Glycyrrhize (Cylindrosporium). 738. Gomphocarpi (Sacidium). 651. Gomphrenæ (Phyllosticta). 53. Gordoniæ (Cytospora). 274. goritiensis (Phyllosticta). 22. Gossypii (Phoma). 121. Gossypii (Phlyctæna). 595. gossypina (Diplodia). 366. gossypina (Septoria). 516. gracilis (Septoria). 560. gracillima (Septoria). 566. graminea (Diplodina). 413. graminea (Labrella). 649. graminella (Phoma). 166. graminella (Stagonospora). 454. gramineum (Crocicreas). 183. graminis (Actinothyrium). 658. Graminis (Asteroma). 215. graminis (Cryptosporium). 760. Graminis (Dilophospora). 600. Graminis (Phoma). 167. graminis (Placosphæria). 246. graminicola (Ascochyta). 407. graminicoia (Hendersonia). 438. graminicola (Vermicularia). 235. graminum (Dinemasporium). 683. graminum (Septoria). 565. graminum 1. Sclerochlow (Septoria). 561. gramınita (Discosia). 756. Granati (Phoma), 78. grande (Melanconium). 754. grandis (Vermicularia). 223. graphidioides (Melanconium). 757. graphoides (Asteroma). 209. Gratiola (Septoria). 534. gregaria (Dothiorella). 236. gregaria (Excipula). 667. grisea (Cytispora). 726. griseum (Melanconium). 750. griseum (Myxosporium). 726. Grossulariæ (Diplodia). 344. Grossulariæ (Phoma). 88. Grossulariæ (Phyllosticta). 17. Grossularize (Septoria). 491. Grossulariæ (Vermicularia). 223. Grylli (Septoria). 564. Guepini (Actinonema). 409. Guepini (Pestalozzia). 794. Guepini (Sporonema). 678.

gummiparum (Coryneum). 774. guttifera (Cytospora). 264. guttulatum (Fusicoccum). 250. Guyonianum (Steganosporium). 806. Gymnadeniæ (Septoria). 575.

hæmatocycla (Phyllosticta). 61. Halymi (Coniothyrium). 316. Hamamelidis (Gloosporium). 700. hamata (Libertella). 746. hamata (Rhabdospora). 581. Hapalocystis (Fusicoccum). 249. hapalocystis (Phoma). 94. Hardenbergie (Phoma). 102. Harknessi (Diplodia). 363. Haslinszkyi (Camarosporium). 468. Haussknechtiæ (Asteroma). 203. hawaiense (Gleeosporium). 708. Haynaldi (Phyllosticta). 25. Haynaldianum (Gleeosporium). 700. hedeomina (Rhabdospora), 500, Hedera (Coniothyrium). 307. Hederæ (Diplodia). 344. Hederæ (Melanconium). 851. Hederæ (Phoma), 87. Hederæ (Septoria). 490. Hederæ (Sphæria). 360. Hederæ (Sphæronæma). 617. hederwecolum (Myriocephalum). 761. hedericola (Diplodia). 260. hedericola (Phyllosticta). 20. hedericola (Sphæropsis). 295. hedericolum (Thyrsidium), 761, hedysarella (Phoma). 121. Hedysari (Asteroma). 203. Hedysari (Phoma). 121. Hedysari (Phoma). 144 Helianthemi (Phyllosticta). 38. helianthicola (Rhabdospora). 592. Helicis (Giccosporium). 707. Helicis (l'homa). 87. helicomyxa (Sphæronæma), 197. Heliconiae (Stagonospora). 450. helleborella (Phyllosticta). 37. Hellebori (Ascochyta), 396. Hellebori (Septoria). 524. helleborina (Rhabdospora). 588. Helvellæ (Sphæronæmella). 618. helvola (Phoma). 116. hemisphærica (Aposphæria). 170. Hendersoni (Cytospora). 252. Hendersoni (Gleeosporium). 702.

Hennebergii (Phoma). 167. Henriquesiana (Hendersonia). 427. Henriquesii (Coniothyrium). 318. Henriquesii (Phyllosticta). 28. Henriquesii (Septoria). 520. Henriquesii (Sphæropsis). 296. Hepaticæ (Gloosporium). 700. Hepatica (Septoria). 522. Heraciei (Hendersonia), 432, Heraclei (Labrella). 648. Heraclei (Septoria). 528 herbarum (Coniothyrium). 317. herbarum (Conjothyrium). 318. herbarum (Diplodia). 370. herbarum (Leptostroma). 587. herbarum (Leptostroma). 645. herbarum (Phoma). 133, herbarum (Rhabdospora), 593. herbarum (Stagonospora). 447. herbarum (Vermicularia). 226. herbicola (Diplodina). 411. herbicola (Pestalozzia). 705. Hesperidearum (Ascochyta). 390. Hesperidearum (Gloeosporium). 702. Hesperidearum (Phoma). 12. Hesperidearum (Phyllosticta). 12. Hesperidearum (Septoria). 477. hesperidica (Diplodia). 331. hesperidica (Haplosporella). 323. hesperidica (Libertella). 745. heteracantha (Cytosporina). 603. heterochrea (Septoria). 538. heteroclita (Diplodia). 362. Heteromeles (Phoma). 110. Heteromeles (Phyllosticta). 37. heteromorpha (Diplodia). 337. heteromorpha (Pestalozzia). 791. heteromorpha (Phoma). 84. heteromorphum (Sphæronæma): 195. heterospermum (Coryneum). 779. heterospora (Trullula), 733. Heuffelii (Phoma). 132. hians (Gleeosporium). 701. Hibisci (Septoria). 476. hibiscina (Diplodia). 330. hiemale (Sphæronfema). 677. Hippocastani (Septoria). 479. Hippoglossi (Phoma). 162. Hippophaës (Cytospora). 274. Hippophaës (Septoria). 498. hirta (Chætodiplodia) 375. hirta (Hendersonia). 422.

hirta (Pyrenochæta). 221. hirtella (Chætodiplodia). 375. hispidula (Cornularia). 599. hispidulum (Dinemasporium). 685. hispidulum (Sphæronæma). 196. Hoffmanni (Asterosporium). 782. Holei (Septoria). 562. Holoschæni (Leptothyrium). 636. Holoschæni (Septoria). 568. hormococcoides (Dendrophoma). 181. horrida (Cytospor!). 259. hortense (Coniothyrium). 315. hortensis (Rhabdospora). 587. hortensis (Stagonospora). 446. hortorum (Phyllosticta). 49. Hosackie (Phoma). 121. Hosackiæ (Septoria). 508. Hoyæ (Septoria). 542. Hualtatæ (Phyllosiicta). 44. Humuli (Diplodia). 365. Humuli (Phyllosticta). 53. Humuli (Septoria). 557. hyalina (Phoma), 87. hyalinum (Melanconium). 724. hyalopus (Hendersonia). 425. hyalosperma (Cytospora). 258. hyalospora (Diplodia). 412. hyalospora (Septoria). 488. hyalospora (Stagonospora). 447. Hydrocotyles (Depazea). 62. Hydrocotyles (Septoria). 531. hydrophila (Dendrophoma). 182. hydrophila (Phyllosticta). 56. hydrophila (Septoria). 570. Hyperici (Ascochyta). 403. Hyperici (Asteroma). 203. Hyperici (Leptostroma). 647. Hyperici (Septoria). 515. hypericina (Diplodia). 366. hypericina (Pestalozzia). 795. hypodermia (Vermicularia). 228. hypodermium (Cryptosporium). 742. hypodermium (Myxosporium). 724. hypodermoides (Leptostroma). 646. hypospila (Myxormia), 734. hypoxyloidea (Botryodiplodia). 379, hysterella (Aposphæria). 170. hysterella (Phoma). 102. hysteriiformis (Cytospora). 269. hysteriiformis (Pestalozzia). 793. hysteriiformis (Phoma). 142. hysterioidea (Phoma). 167.

hysterioides (Cryptosporium). 742. hysterioides (Cryptostictis). 443. hysterioides (Leptostromella). 659. hysterioides (Phlycten). 595. hysterioides (Stagonospora). 455. hysterioides (Trullula). 732. Hysteropsis (Phoma). 142. hystricinum (Sphærographium). 597.

Jaborosæ (Septoria). 490. Jacobæa (Phyllosticta). 44. Janiphæ (Phoma). 141. japonica (Phoma). 78. japonica (Phyllosticta). 25. japonica (Septoria). 497. Jasiones (Phoma). 146. Jasmini (Coniothyrium). Jasmini (Diplodia). 346. Jasmini (Phyllosticta). 22. Jasmini (Septoria). 494. jasminica (Phyllosticta). 22. ichthyospora (Hendersonia). 432. Jefferisii (Pestalozzia). 798. jenisseica (Septoria). 501, Jenissensis (Ascochyta). 405. Jenissensis (Septoria), 524. ilicella (Phoma). 106. ilicifolia (Chætophoma). 199. ilicina (Cryptostictis). 443. ilicina (Cytospora). 274. ilicina (Phyllosticta). 35 ilicinum (Leptothyriu:n). 629. Ilicis (Diplodia). 360. Ilicis (Pestalozzia). 788. Ilicis (Phoma). 106. ilicicola (Diplodia). 333. ilicicola (Phoma). 106. ilicifoliæ (Septoria). 483. imberbe (Cryptosporium). 744. immaculatum (Asteroma). 214. immersa (Phoma). 122. Impatientis (Depazea). 62. Impatientis (Excipula). 670. Impatientis (Leptostroma). 647. imperialis (Diplodia). 348. imperialis (Phoma). 92. imperialis (Rhabdospora). 583. importata (Phoma). 127. impressum (Asteroma). . 211. impressum (Coryneum). 775. inæqualis (Phoma). 67. inæqualis (Rhabdospora). 580.

incarcerata (Phoma). 77. incarnata (Cytospora). 263. incarnatum (Myxosporium). 722. Incarvillem (Diplodia). 348. incerta (Cytospora). 257. incomptum (Asteroma), 213. incondita (Septoria). 479, incondita var. quercicola (Septoria). 505. inconspicua (Aposphæria). 174. inconspicua (Phoma). 136. inconspicua (Septoria). 554. increscens (Septoria). 533. incrustans (Camarosporium). 463. incrustans (Coniothyrium). 313, incrustans (Diplodia). 351. incrustans (Phoma). 119. incurvum (Amerosporium). 681. Indigoferæ (Phoma). 121. iners (Phoma). 84. inflatum (Asteroma). 204. infuscata (Phyllosticta). 50. innumera (Phyllosticta). 62. innumerabilis (Phoma). 108. innumerabilis (Stagonospora). innumerosa (Stagonospora). 451. inophila (Aposphæria). 175. inquinans (Diplodia). 346. inquinans (Pestalozzia). 784. insculpta (Phoma). 81. insidens (Pestalozzia), 793. isidiosa (Stagonospora). 452. insitivum (Coniothyrium). 306. insulana (Phyllosticta). 21. insularis (Septoria). 491. integerrima (Excipula). 669. intermedia (Cytospora). 264. intermedia (Phoma). 131. intermedium (Coryneum). 776. intermedium (Glœosporium). 702. intermedium (Melanconium). 753. intermixta (Stagonospora). 454. interogativa (Diplodia). 332. interrupta (Rhabdospora). 583. inulina (Phoma). 123. inundatorum (Leptostroma). 645. involucri (Vermicularia). 223. Inulæ (Septoria). 547. Intybi (Septoria). 551. Iohnstonii (Phlyctæna). 595. Ipomæarum (Vermicularia). 230. Jowana (Phoma). 143. Iresines (Septoria). 556.

irregulare (Steganosporium). 804. irregularis (Phoma). 142. irregularis (Septoria). 484. Iridis (Leptostroma), 644. Ischremi (Ascochyta). 407. Ischæmi (Diplodia), 374. Ischremi (Stagonospora). 454. Isopyri (Sphæropsis). 302. italichroma (Patellina). 623. juglandicola (Botryodiplodia), 377. juglandicola (Cytosporina). 603. juglandina (Cytospora). 267. juglandina (Dendrophoma). 181. juglandina (Phoma). 96. juglandina (Phyllosticta). 31. juglandinum (Melanconium). 753. Juglandis (Cytospora), 267. Juglandis (Diplodia). 352. Juglandis (Marsonia) 768. Juglandis (Melanconium). 753. Juglandis (Phoma). 152. Juglandis (Phyllosticta). 31. Juglandis (Rhabdospora). 584. Julia (Discosia). 654. Julia (Pyllosticta), 48. Julibrissin (Diplodia), 336. Juneacearum (Leptostroma). 644. Juncaginearum (Asteroma), 214. junceum (Sacidium). 651. Junci (Phoma). 164. Junci (Septoria) 569. juncicola (Hendersonia). 438. juncigena (Godroniella). 665. juncina (Leptostromella). 660. junciseda (Stagonospora). 452. Juniperi (Diplodia). 355. Juniperi (Dothiorella). 241. Juniperi (Phoma), 101. Juniperi B. minor (Podisoma). 430. juniperinum (Coryneum). 781. Ixerbæ (Sacidium), 651. K. Vide nost Y. labens (Aposphæria). 173. Labes (Asteroma). 767. labilis (Phoma). 122. Labruscæ (Phyllosticta) 20. Laburni (Ascochyta), 395. Laburni (Camarosporium). 460. Laburni (Phoma). 68. Laburni (Septoria). 485. laburnicola (Phyllosticta). 10. lacera (Heteropatella). 670.

Lachastreana (Septoria), 515. Lactucæ (Phoma). 121. Lactucæ (Septoria). 551. lactucicola (Septoria), 552. lacustris (Phoma). 164. lacustris (Septoria), 567. lacustris (Stagonospora). 452. læticolor (Glæosporium). 718. lagenaria (Hendersonia). 433. lagenaria (Phoma). 148. lagenarium (Gloeosporium). 719. lagenicola (Phoma). 149. lageniforme (Sphæronæma). 196. Lagerstræmiæ (Diplodia). 343. Lagerstræmiæ (Phoma). 93. Lambottiana (Stagonospora). 448. lamiicola (Septoria). 538. Lamii (Phyllosticta). 49. Lamii (Septoria). 538. Lamiorum (Ascochyta). 403. Lanceola (Myxosporium). 726. lanceolata (Phoma), 162. Landeghemiæ (Phoma). 71. Lantanæ (Ascochyta). 381. Lantanæ (Camarosporium). 466. Lantanæ (Diplodia). 48 346. lanuginosa (Cyphina). 623. Laportere (Glæosporium). 711. Lappæ (Phlyctæna). 595. Lappæ (Phyllosticta). 44. Lapparum (Septoria). 551. laricinum (Leptostroma). 641. Laricis (Phoma), 169. Laserpitii (Phyllosticta). 45. lata (Diplodia), 336. latebrarum (Asteroma). 212. lateritia (Næmospora). 749. latitans (Dothiorella). 241. lathyrina (Phoma). 147. lathyrina (Phyllosticta). 42. laurella (Phoma). 83. laurella (Phyllosticta). 18. Laureoke (Asteroma). 205. Laureoke (Phyllosticta). 26. Lauri (Ceuthospora). 279. Lauri (Phyllosticta). 17. laurina (Diplodia). 340. laurina (Diplodia). 348. laurina (Pestalozzia). 800. laurina (Phoma). 83. Lauro-cerasi (Cytospora). 276. Lauro-Cerasi (Diplodia). 362.

Lauro-Cerasi (Pestalozzia). 786. Lauro-cerasi (Phoma). 107. Lauro-cerasi (Phyllosticta) 4. Lauro-cerasi (Septoria). 488. lauro-cerasina (Septoria). 488. Lavandulæ (Septoria). 537. Lavateræ (Phoma). 122. laxa (Cytospora). 277. laxum (Myriocephalum). 762. Lebiseyi (Phoma). 91. Lebretoniana (Rhabdospora). 579. Leburtonii (Phoma). 155. . Lecythea (Sphæropsis), 302. Leersiæ (Septoria). 561. Leguminis (Coniothyrium). 309. Leguminis-Cytisi (Diplodia). 358. Leguminis (Glæosporium). 717. Leguminis B. Pisi (Septoria). 397. Leguminum (Ascochyta). 385. Leguminum (Discula) 677. Leguminum (Glœosporium). 718. Leguminum (Leptothyrium), 632, Leguminum (Phoma). 147. Leguminum (Septoria). 559. Leguminum (Trullula). 734. leucophthalmà (Catinula): 673. lentiformis (Dothiorella). 240. lentiformis (Rhabdospora). 582. Lentisci (Dichlæna). 620. Lepidii (Septoria). 519. lepidiicola (Septoria). 519. leptidea (Phoma). 111. leptidula (Phoma). 137. leptostromoides (Glœosporium). 715. leptothyrioides (Phoma). 144. Lesourdeanum (Fusicoccum). 249. Letendreana (Hendersonia). 433. Letendreana (Septoria). 500. Letendrei (Phoma). 146. Leucanthemi (Phyllosticta). 44. Leucanthemi (Septoria). 549. leucoconia (Zythia). 615. luecomyxa (Cytosporina). 604. leucoplithalma (Cytospora). 255. leucosperma (Cytospora). 268. leucospila (Phoma). 107. leucostigma (Phoma). 105. leucostoma (Cytospora). 254. leucostoma (Eriospora). 600. leucostoma (Phoma). 75, leucostomum (Fusicoccum). 249. leucostroma (Næmospora). 749.

leucotrichum (Amerosporium). 682. Leveillei (Septoria). 484. levigata (Excipula). 669. Levistici (Septoria). 531. Leycesteriæ (Septoria), 492. Libertella (Cytospora). 277. Libertiana (Phoma). 73. Libertianum (Leptothyrium). 629. librincola (Aposphæria). 173. lichenicola (Hendersonia). 439. lichenoides v. scabiosicela (Sphæria). 553. lichrenophilum (Sphæronæma). 197. ligniaria (Pseudodiplodia). 621. lignicola (Diplodiella). 377. lignicola (Discula). 676. lignicola (Hendersonia). 442. lignicola (Pestalozzia). 794 lignicola (Pyrenochæta). 219. lignicolum (Seridium). 783. lignifraga (Libertella). 746. lignorum (Coniothyrium). 315. lignorum (Dendrophoma). 181. Ligustri (Ascochyta). 387. Ligustri (Diplodia). 347. Ligustri (Phyllosticta). 21. Ligustri (Septoria) 497. ligustrina (Phoma). 98, ligustrina (Phoma). 116. ligustrina (Phyllosticta). 22. ligustrinum (Glœosporium). 704. Lilacis (Diplodia), 346. Liliacearum (Phoma). 158. Liliacearum (Vermicularia). 233. Liliaceoru n (Vermicularia). 232. liliicola (Phyllosticta). 58. Liliorum (Excipula). 669. limbalis (Ascochyta), 393. limbalis (Phyllosticta). 24. Limnanthemi (Septoria). 541. Limoniæ (Phoma). 83. Limonis (Phoma). 83. Limonum (Septoria). 477. Linariæ (Diplodia). 3651 Linariæ (Phyllosticta). 47. Lindemuthianum (Gloosporium). 717. lineare (Leptostroma). 646. linearis (Phoma), 124. linearis (Phoma). 166. linearis (Sphæropsis) 300. lineatum (Leptostroma). 646. Lineola (Colletotrichum), 736. lineolata (Phoma). 150.

lineolata (Septoria). 567. lineolatum (Gloosporium). 721. Lingam (Phoma), 119, Linnææ (Depazen). 63. Linocieræ (Phyllosticta). 29. lintearium (Sphæronæma). 198. Liquidambaris (Sciridium), 783. Liquidambaris (Septoria), 501. Lirella (Hendersonia). 432. lirella (Phoma). 139. lirellata (Phoma). 118. Liriodendri (Asteroma). 203. Liriodendri (Ceuthospora). 279. Liriodendri (Dothiorella). 236. Liriodendri (Phoma). 154. Liriodendri (Phyllosticta), 30, liriodendrica (Phyllosticta). 30. lirelliformis (Phoma). 87. lirelliformis (Phoma). 118. lirelloides (Phoma). 72. litigiosum (Leptothyrium). 636. littoralis (Septoria). 565. littorea (Septoria). 542. Lituus (Rhabdospora). 586. Lobelize (Phoma). 132. Lobeliæ (Septoria). 532. loculata (Botryodiplodia). 380. longipes (Harknessia). 320. longines (Hendersonia), 423. longines (Phoma). 95. longiseta (Pestalozzia). 787. longispora (Diplodia), 354. longispora (Phoma). 79, longissima (Phoma). 125. longissima (Rhabdospora). 588. longissimum (Melanconium). 751. Loniceræ (Asteroma). 205. Loniceræ (Cryptostictis). 444. Loniceræ (Diplodia). 345. Liniceræ (Hendersonia). 423: Loniceræ (Libertella). 745. Loniceræ (Marsonia). 769. Loniceræ (Phoma). 70. Loniceræ (Phyllosticta). 18. Loniceræ (Rhabdospora). 582. Loniceræ (Sphærographium). 597. lonicericolum (Leptostroma). 647. Lophanthi (Septoria). 538. lophioides (Stagonospora). 451. Lophiostoma (Stagonospora), 449. lophiostomoides (Phoma). 167. Lorentzii (Ascochyta), 390.

loricata (Hendersonia), 440. lucida (Phoma). 117. ludibunda (Cytosporina). 601. Ludwigiæ (Septoria). 512. Lunariæ (Leptothyrium), 634. Lupini (Cryptosporium). 743, Lupini (Diplodia), 368. Lupini (Hendersonia). 431. Lupini (Septoria), 508. Lupuli (Hendersonia). 434. lusitanica (Phoma), 124. lutetiana (Phyllosticta). 56. Luzulæ (Leptostroma), 644, Luzulæ (Pyrenochæta). 221. Luzulæ (Stagonospora). 451. Lychnidis (Depazea). 62. Lychnidis (Glæosporium). 707. Lychnidis (Leptothyrium). 633. Lychnidis (Septoria). 517. lyciella (Diplodia). 367. Lycii (Camarosporium). 467. Lycii (Diplodia). 367. Lycii (Phoma). 88. Lycoctoni (Depazea). 63. Lycoctoni (Septoria), 525. Lycopersici (Septoria). 535. Lycopi (Septoria). 540. Lysimachiæ (Septoria). 533. Lythri (Depazea). 63. lythrina (Septoria), 512.

macilenta (Cytospora). 258. Maclutæ (Diplodia). 350. Macluræ (Sphæropsis). 299. macrobasis (Cytospora). 261. macrochæta (Vermicularia). 225. macropoda (Pestalozzia). 800. macropoda (Septoria). 561. macropora (Septoria). 526. macropus (Glæosporium). 703. macropus (Phoma). 90. macropus (Stagonospora). 453. macropyrena (Phoma), 141. macrosperma (Aposphæria). 174. macrosperma (Discula). 675. macrosperma (Phoma). 73. macrosperma (Stagonospora). 453. macrosperma (Stilbospora). 772. macrosperma (Stilbospora). 772. macrospermum (Coryneum). 776. macrospermum (Didymosporium). 765. macrospermum (Sporidesmium). 772,

macrospora (Cornularia). 599. macrospora (Dothiorella). 239. macrospora (Hendersonia). 430. macrospora (Libertella), 746. macrospora (Pestalozzia). 796. macrospora (Stagonospora). 450: macrosporum (Camarosporium). 461. macrosporum (Coryneum). 782. macrosporum (Myxosporium). 727. macrostoma (Phoma). 87. macrostoma (Diplodia). 350. macrothecium (Leptothyrium). 633. macrothecia (Phoma). 158. macrotrichum (Amerosporium). 681. maculans (Ascochyta). 389. maculans (Cryptosporium). 742. maculans (Fusarium). 577. maculans (Hendersonia). 427. maculans (Phoma). 103. maculans (Phoma), 116. maculans (Rhabdospora). maculans (Septoglocum). 803. maculans (Vermicularia). 228. maculare (Asteroma). 209. macularis (Cytospora). 256. macularis (Phoma). 111. macularis (Septoria). 507. maculata (Diplodia). 363. maculata (Phoma). 157. maculatum (Entomosporium). 657. maculicola (Discosia). 654. maculicolum (Coryneum), 777. maculicolum (Leptothyrium). 628. maculifera (Phoma). 111. maculiformis (Phyllosticta). 35. maculosa (Septoria). 513. Mærtensii (Sphæropsis), 293. magna (Hendersonia). 431. magnata (Hendersonia). 441. Magnoliæ (Actinothyrium). 658. Magnoliæ (Ascochyta). 384. Magnoliæ (Diplodia). 363. Magnoliæ (Discula) 674. Magnoliæ (Hendersonia). 426. Magnoliæ (Phyllosticta). 25. Magnoliæ (Protostegia). 691. Magnoliee (Rhabdospora). 580. Magnoliæ (Septoria). 475. Magnoliæ (Sphæronæma). 198. magnum (Melanconium). 753 Mahaleb (Phyllosticta). 5. Mahoniæ (Diplodia). 361.

Mahoniæ (Phoma). 117. Mahoniæ (Phyllosticta). 25. Mahoniæ (Septoria). 475. Mahoniana (Phoma), 117. Malbranchei (Phoma). 99. Mali (Asteroma). 206. Mali (Hendersonia). 428: Mali (Phoma). 75. Mali (Sphæropsis). 293. malmedyensis (Libertiella), 617. Malorum (Diplodia). 363, Malorum (Phoma). 152. Malorum (Sphæropsis). 294. Malpighiæ (Phoma). 116. Malvacearum (Phoma). 122. Malvæ (Sphæropsis). 303. malvicola (Ascochyta). 399. Maianthemi (Septoria). 573. majuscula (Excipula). 669. mamillana (Diplodia). 344. mamillana (Hendersonia). 420. mamillaris (Phoma). 66. Mamma (Diplodia). 347. mangalorica (Pestalozzia). 790. Mangiferæ (Catinula). 673. Mantegazziana (Phoma). 104. marginalis (Phyllosticta), 12. Martyniæ (Phyllosticta). 47. Marchandianum (Myxosporium), 725. Marchantiæ (Ascochyta). 407. Marchantiæ (Phyllosticta). 61. marginata (Sphæropsis). 304. marginatum (Leptostroma)., 643. marginatum (Seiridium). 783. Mariæ (Cryptostictis). 444. Mariæ (Hendersonia). 422. Mariæ (Phoma). 70. marmorata (Phyllosticta). 36. Marrubii (Phoma). 129. Marsdeniæ (Diplodia). 365. Marlensii (Epidochium). 751. martialis (Hendersonia). 434: Martianoffiana (Ascochyta). 394. Martianoffiana (Septoria), 526. Martianoffianum (Asteroma). 203. Martianoffianum (Gloosporium). 699 Martineziæ (Septoria). 575. Martini (Marsonia). 769. Massalongi (Phoma). 145. Massariana (Cytospora). 253. maura (Diplodia). 341. Mauritiæ (Sacidium). 652.

Maydis (Diplodia). 373. Maydis (Septoria). 566. Medicaginis (Leptothyrium). 634. Medicaginis (Phyllosticta). 42. Medicaginis (Septoria). 508. mediella (Aposphæria). 170. Medusula (Asteroma). 211. megalospora (Diplodia), 359, megasperma (Phoma), 86, megaspora (Septoria). 572. melæna (Diplodia). 349. melæna v. Lauri (Diplodia). melæna (Phoma). 135. melaleuca (Catinula). 673. melalenca (Phoma). 73. Melandrii (Septoria). 517. melanophæa (Excipula). 667) melanoplaca (Phyllostieta). 5%. Melanophthalmi (Septoria), 509. melanoplaca (Phyllosticta). 638. melanoxanthum (Melanconium). 758. melasperma (Cytospora). 264. melasporum (Coniothyrium). 319. Melianthi (Septoria). 480. Melicae (Septoria). 560. Melicae (Vermicularia), 234. Meliloti (Depazea). 63. Meliloti (Marsonia). 771. Mellitidis (Septoria). 539. Melissæ (Septoria). 539. mellea (Aschersonia). 620. membranacea (Staurochreta). 219. mendax (Cytosporella). 252. mendax (Phoma), 68. Menispermi (Phoma). 126. Menispermi (Sphæropsis), 303. Menispermi (Septoria). 555. menispora (Septoria). 569. Menthæ (Septoria), 538. menthicola (Septoria), 539, Menyanthes (Septoria). 532. Mercurialis (Phyllosticta). 53. Mercurialis (Septoria), 557. Mercurialis (Vermicularia). 231. Mercurialis (Zythia). 615. merizophila (Dendrophoma). 180. Mespili (Asteroma). 205. Mespili (Entomosporium). 657. Mespili (Phyllosticta). 5, Mespili (Septoria). 487. Mespili (Stagonospora). 416. Metrosideri (Cytospora). 276.

metulæforme (Sphæronæma). 188. metulispora (Ascochyta). 386. Mererei (Leptothyrium). 498. mexicana (Ephelis), 691. Micheneri (Thyrsidium), 762. micrococcoides (Phyllosticta), 12. micromegala (Phoma). 73. Microperæ (Sphærographium). 598. microphylla (Hendersonia), 432. micropuncta (Phyllosticta). 18. micropunctum (Leptostroma). 643. microscopica (Cornularia). COO. microscopica (Diplodia). 367. microscopica (Hendersonia). 437. microscopica (Phoma). 159. microscopica (Stagonospora). 446. microscopicum (Coniothyrium). 311, microscopicum (Sphæronæma). 197. microsora (Pestalozzia). 800. microsora (Septoria). 541. microsperma (Dendrophoma). microsperma (Discula). 675. microsperma (Phoma), 142. microsperma (Septoria). 506. microsperma (Stilbospora). 755. microspermum (Colletotrichum). 736. microspermum (Cylindrosporium), 738. microspermum (Melanconium). 751. microspora (Cytospora). 253. microspora (Diplodia). 346. microspora (Discula). 674. microspora (Næmospora). 747. microspora (Pestalozzia). 789. microspora (Stagonospora), 4.7. microsporella (Diplodia). 357. microsporum (Amerosporium). 681. microsporum (Dinemasporium). 684. microsporum (Sacidium). 652. microsticta (Hendersonia), 439, microsticta (Phyllosticta). 23. microstictoides (Coryneum). 774. microstictum (Coryneum). 775. microstoma (Cytospora). 254. militaris (Stilbospora). 773. Millardetianum (Myxosporium): 725. millegrana (Diplodiella), 376. milliaria (Cytosporina). 602. millepunctata (Cytosporina). 602. millepunctata (Phoma). 105. Milii-multiflori (Sphæria). 439. miniata (Myxosporella). 730. minima (Ceuthospora). 279.

minima (Discosia). 655. minima (Phoma). 81. minima (Phoma), 115. minima (Staurochæta). 219. minimum (Dinemasporium). 684. minuscula (Diplodia). 371. minussensis (Phyllosticta). 24. minuta (Cytospora). 272. minuta (Discosia). 655. minuta (Vermicularia). 228. minutella (Phoma). 121. minutissima (Hendersonia). 437. minutissima (Phoma). 144. minutissimum (Didymosporium). 764. minutissimum (Sphæronæma). 186. minutula (Aposphæria). 176. minutula (Phoma). 70. minutulum (Camarosporium). 469. minutulum (Myxosporium). 726. minutum (Melanostroma). 728. mirabilis (Septoria). 576. Mirbelii (Phoma). ~ 105. mixta (Phoma). 90. mixtum (Coniothyrium). 313. modonia (Stilbospora). 772. Molleriana (Ascochyta) Molleriana (Diplodia). 351. Molleriana (Harknessia). 320. Molleriana (Phoma). 110. Molleriana (Phyllosticta). 54 Mollerianum (Glososporium). 716. mollis (Aposphæria). 172. monocarpa (Ceuthospora). 279. monochæta (Pestalozzia). 797. monochætoidea (Pestalozzia). 798. Monotospora (Melanconium). 750. monorhincha (Pestalozzia). 798. Montagnei (Coniothyrium). 310 Montagnei (Hendersonia). 450. Montagnei (Rhabdospora). 584. Moorei (Pestalozzia). 795. montana (Phoma). 130. morbosa (Hendersonula). 445. Mori (Aposphæria). 174. Mori (Camarosporium), 464. Mori (Cryptosporium). 743. Mori (Diplodia), 351. Mori (Pestalozzia). 793, Mori (Phleospora). 577. moricola (Diplodia). 351. moricola (Phleospora). 578. moricola (Phoma) 95.

Mororum (Phoma). 95. morphæa (Phoma). 154. Mortolensis (Septoria), 490. Mougeotiana (Sphreropsis). 302. Mougeotii (Cytospora). 270. Mougeotii (Glæosporium). 710. Mougeotii (Micula). 604. Mougeotii (Næmospera), 687. Mougeotii (Sphæronæmella), 617. Mougeotii (Septoria), 553. mucifera (Aposphæria), 175. mucipara (Phoma). 109. mucosa (Phoma). 148. Müggenburgii (Rhabdospora). 581. Mulgedii (Septoria). 545. Mülleri (Phoma). 76. multiforme (Camarosporium). multiplex (Dothiorella). 237. multipunctata (Phoma), 130, multiseptata (Stilbospora). 773. multivalve (Phacidium, Xyloma). muralis (Phoma). 139. muricatum (Steganosporium). 806. muricospora (Roumeguériella), 616, murina (Septoria), 574. Muste (Chaetophoma), 201. Musæ (Myxosporium). 728. Musae (Phoma). 163. Musæ (Stagonospora). 450. Musarum (Phoma). 163, mutabilis (Dichomera). 471. mutica (Fhoma). 98. mutila (Diplodia), 353. myelocola (Phoma). 84. myelostromatica (Rhabdospora). 582. Mygindæ (Diplodia). 361. Mygindæ (Glæosporium). 704. Myosotidis (Cylindrosporium). 738. myriadea (Dendrophoma). 179. Myricæ (Pestalozzia). 785. Myricæ (Phyllosticta). 9. myriocarpa (Cytosporina). myriocarpa (Phoma). 117. myriocarpum (Coniothyrium). 315. myriospora (Chætophoma). £00. myriospora (Diplodia). 373. myrtinum (Leptothyrium). 629. myxosporioides (Diplodia).

Nabali (Septoria). 547. Napelli (Septoria). 525. Napi (Phyllosticta). 38. Napoleoneæ (Phyllosticta). 36. narvisiana (Septoria). 5°8, natalensis (Levieuxia). 321. Natricis (Sacidium), 652. Nebula (Rhabdospora), 589, nebulosa (Phoma). 135. nebulosa (Phyllosticta). 43. nebulosa (Rhabdospora). 59. Neesii (Cryptosporium). 740. neglecta (Pestalozzia). 788 neglecta (Phoma). 161. neglecta (Stagonospora). 455. Negriana (Phoma). 110. Negundinis (Coryneum). 775. Negundinis (Diplodia, Sphæria). Negundinis (Phyllosticta). 13. Neilliæ (Marsonia). 769. nemoralis (Phyllosticta). 16. nephrospermum (Melanconium). 751. Nerii (Diplodia), 347. Nerii (Haplosporella), 324, Nerii (Phoma). 84. Nerii (Phyllosticta). 26. Nerii (Septoria). 497. neriicola (Septoria). 497. nervisequa (Phoma). 108. nervisequa (Phyllosticta). 51. nervisequia (Excipula). 668. nervisequum (Glæosporium). .711. nervisequum (Hypodermium). 729. Nesee (Phyllosticta). 57. nesodes (Septoria). 531. niciemusis (Rhabdospora). 587. Nicotianæ (Ascochyta). 401. nidulaus (Phoma). 80. Niesslii (Phoma). 119. nigerrima (Septoria). 487. nigrella (Rhabdospora). 588. nigricans (Diplodia). 337. nigricans (Næmospora), 748. nigripes (Spheronema). 187. nigro-maculans (Septoria). 559. nigrum (Cryptosporium). 743, niphostoma (Septoria). 475. nitens (Phoma). 151. nitida (Agyriella). 731. nitida (Discosia). 654. nitida (Labrella). 649. mitida (Placosphæria). 246. nitida (Phoma). 167. nitidula (Excipula). 668. nitidula (Phoma). 128.

nitidula (Phyllosticta). 19. nitidula (Septoria). 481. nitidula (Trullula). 732. nitidulum (Asteroma). 205. nitidulum (Leptostroma). 644. nitidum (Myxosporium). 723. nitidum (Phlyctidium), 654. nitidum (Sphæronæma). 187. Nitrariæ (Phoma), 86. nivea (Cytospora). 260. niveum (Cylindrosporium). 737. nobile (Glæssporium). 710, nobilis (Hendersonia). 432. nobilis (Phoma). 112. nobilis (Phyllosticta). 18. nobilis (Pyrenochata). 219. nodorum (Septoria). 561. Nolitangere (Septoria). 514. Notarisianum (Coryneum), 778. Notarisii (Hyaloceras). 783. notha (Hendersonia). 430. notha (Phoma). 94. notha (Rhabdospora). 583. Novæ-Hollandiæ (Sphæropsis). 295. noveboracense (Cryptosporium). 742. novissima (Blennoria). 730. Nubecula (Rhabdospora). 592. Nuttallii (Septogloum). 802. nuptialis (Phyllosticta). 9. Nymphææ (Ascochyta). 397. Nyssæ (Cryptosporium). 741. Nyssæ (Phyllosticta). 36. nyssocarpa (Phoma). 152,

obducens (Ascochyta). 399. ob'onga (Collosisperma). 755. oblonga (Chætomella). 322. oblonga (Phoma). 99. oblonga (Vermicularia). 233. oblongatum (Melanconium). 755. oblongum (Melanconium). 752. oblongum (Thyrsidium). 762. obovoideum (Coniothyrium). 306. obsidionis (Septoria). 513. obscura (Discula). 675. obscurata (Septoria). 492. obscurum (Asteroma). 207. obscurum (Steganosporium). 805. obsoleta (Diplodia). 366. obturata (Phoma). 85. obturatum (Sporonema). 678. obtusa (Hendersonia). 423.

obtusa (Hypocenia). obtusa (Phoma). 126. occidentalis (Phoma). 61. occulta (Cytospora). 258. occulta (Hendersonia). 421. occulta (Phoma). 150. occulta (Phoma). 164. ocellata (Cytospora). 263. ocellata (Phoma). 109. ocellata (Phyllosticta). 12. ocellata (Septoria). 505. ochra (Phoma). 122. ochracco-maculans (Septoria). 476. oehroleuca (Septoria). 504. oculata (Phoma). 139, (Enothera (Phoma), 134. (Enotherse (Septoria), 513. cenotherella (Phoma). 134. Olere (Ceuthospora). 278. Oleæ (Cytospora). 275. Oleæ (Melanconium). 752. Olcte (Phoma). 112, Olca (Spharonama). 188. Olese-chrysophylke (Septoria). 496. Otræ \$. Phillyrece (Spiceria). 496. oleaginea (Septoria). 558 Oleandri (Ascochyta). 392. Oleandri (Diplodia). 360. Oleandri (Rhabdospora). 583. oleandrina (Septoria). 497. oleracea (Phoma). 135. oligosporum (Coryneum). 779. olivacca (Centhospora). 280. olivacea (Discula). 676. olivacca (Septoria). 508. olivaceum (Clisosporium). 316. olivaceum (Coniothyrium). 305. olivaceum (Melanconium). 757. Olivie (Septoria). 496. Olivarum (Phoma). 156. olivascens (Trullula). 731. Oncidii (Phoma). 163. oncostoma (Phoma). 69. Onobrychidis (Placosphæria). 245. bespermum (Coniothyrium). 314. obspora (Diplodiella). 376. oosporum (Melanconium). 758. opaca (Haplosporella). 324. opegraphoides (Cryptosporium). 741. ophioides (Septoria). 565. ophiospora (Melophia), 659. Ophites (Phoma). 89.

oppilata (Phoma). 98. oppilata (Stagonospora), 449, Opuli (Phoma). 87. Opuli (Phyllosticta). 16. Opuntice (Diplodia). 344. Opuntiae (Phyllosticta). 26. orbiculare (Gloeosporium). 720. Orchidearum (Phoma), 163, Orchidearum (Septoria). 575. Oreodaphnes (Ascochyta). 392. oreades (Camarosporium). 466. oreophila (Septoria). 523. Oreoselini (Septoria). 528. Oreoselini (Trullula), 734, orientalis (Dendrophoma). 178, Origani (Rhabdospora). 591. ornatum (Polynema). 687. ornellum (Fusicoccum). 247, Orni (Ascochyta). 386. Orni (Glæosporium). 707, Orni (Septoria). 495. ornithogalea (Septoria). 571. Ornithogali (Phoma). 158 Ornithogali (Septoria). 571. orobella (Phyllosticta), 42. Orobi (Ascochyta). 398. Orobi (Asteroma). 212. orobicola (Septoria). 509, orobina (Phyllosticta). 42. orobina (Septoria), 509. Orontii (Phyllosticta). 59. orthospora (Cytospora).. 272. orthospora (Phlyetiena). 591. orthospora (Septoria). 483. orthospora (Vermicularia). 227. Oryzie (Ascochyta). 406. Oryze (Septoria). 562. Oryzæ (Sphæropsis), 303, ossis (Sphæronæma)., 198, osteospora (Phyllosticta). 34. ostiolata (Discosia). 655. Ostryæ (Glæosporium). 713. Ostryie (Septoria). 503. Osyridis (Pestalozzia). 790. Oudemansii (Septoria). 563. ovalis (Spheropsis). 292. ovata (Asteromella). 182. ovata (Callosisperma). 753. ovata (Stilbospora), 803. ovata (Vermicularia). 229. ovata (Vermicularia). 231. ovatum (Melanconium), 753,

ovatum (Melanconium). 75%,
ovatum (Myxosporium). 727,
ovoideum (Melanconium). 75%,
ovoideum (Spherontema). 193,
Oxyacanthæ (Cytospora). 255,
Oxyacanthæ (Phelospora). 57%,
Oxalidis (Phyllosticta). 39,
Oxyanthi (Pestalozzia). 790,
oxyspormum (Cryptosporium), 741,
oxyspora (Aschersonia). 620,
oxyspora (Septoria). 565,
oxyspora (Sphæronæmella). 618,
oxystoma (Aposphæria). 176,

pachybasium (Gleosporium). 710, Padi (Actinonema), 409, Padi (Asteroma), 201. Padi (Camarosporium). 462. Padi (Cylindrosporium). 738. Padi (Diptodia). 340. Padi (Dothichiza), 671. padina (Micropera), 605. padina (Phoma), 74, Paconice (Asteroma), 209. Paronia (Phyllosticta), 37, Paeonia (Sentoria), 526, palina (Phoma). 97. Paliuri (Ascochyta). 388. Paliuri (Diplodia). 334. pallens (Phoma), 80, pallens (Septoria). 489. pallida (Libertella). 746. pallida (Stagonopsis), 621. pallido-fuscum (Coniothyrium). 314, pallidum (Melanconium). 752. pallidum (Sphæronæma), 186. Pallor (Ascochyta), 399, Palmarum (Coniothyrium). 318. Palmarum (Depazea, Phyllosticta). 65. Palmarum (Melanconium), 758, Palmarum (Pestalozzia). 796. Palmarum (Phoma), 157 palmicola (Cytospora), 276, palmicola (Diplodia), 372, paludosa (Stagonospora), 453, palustris (Heteropatella). 671. pilastris (Sentoria), 540, pamparum (Septoria). 554. pampeana (Phoma). 127. Pandani (Melanconium). 759. Pandani (Phoma), 157, Papayæ (Diplodia). 350.

papillata (Trullula), 733, papillatum (Camarosporium), 465. Papillula (Aposphæria), 176, Papularia (Melanconium), 753. parabolicum (Sphæronæma). 193. paradisiaca (Spheropsis). 304, paradoxa (Cytospora). 265, paradoxum (Conjothyrium), 313, paradoxum (Glocosporium), 707. parasitan's (Spheropsis). 305. parasitica (Chiastospora). 621. parasiticum (Melanconium). 760. parea (Phoma), 100. paridicola (Depazea). 65. Paridis (Septoria). 574. Parietariae (Coniothyrium). 317. parietinum (Mycogala), 185. Parkinsoniæ (Sphæropsis). 294. Parmelie (Diplodina). 413. partitum (Camarosporium). 465. parva (Cytospora). 271. Passeriniana (Diplodia). 371. Passeriniana (Dothichiza), 671. Passerinii (Discosia). 656. Passerinii (Leptothyrium), 631, Passerinii (Rhabdospora). 583. Passerinii (Septoria). 560. Passifloræ (Ascochyta). 400. Passiflora (Leptothyrium). 633. Passiflore (Phoma). 156. Pastinacie (Sentoria), 528, pastinacina (Septoria). 528. patagonica (Ascoclivta), 396. patagonicum (Camarosporium). 469. Patella (Dinemasporium), 684. Patella (Glossporium), 705. patellaris (Diplodia). 340. Passifloræ (Diplodia). 369. patelliformis (Excipula), 670, pauciseptata (Hendersonia), 419. paucisentata f. Rhois (Hendersonia). 425. Paulowniæ (Ascochyta). 390. Paulowniae (Phoma), 92. Paulownie (Phyllosticta), 27. Paulownie (Septoria). 497. paupercula (Diplodia). 345. Paviæ (Phyllosticta). 4. Peckiana (Discula). 675. Peckiana (Phoma), 80. Peckii (Hendersonia), 422. Peckii (Septoria). 567. Peckii (Sphæropsis). 293.

Peckli (Vermicularia). 232. peduncularis (Phoma). pellica (Diplodia). 373. pelliculosa (Phoma). 186. Peltigeræ (Phyllosticta). 62. Pelligeræ (Zythia). 617. penicillata (Pyrenochæta). 220. penicillatum (Sphæronæma). 194. pensylvanica (Spheropsis). 298. Pentastemonis (Septoria). 534. Penzigi (Camarosporium). 468. Penzigi (Chatophoma). 200. peradenyeum (Coniothyrium). 319. peregrina (Cytosporina). 603. peregrina (Rhabdospora)' 591. percyrina (Sphæria). 584. perexigua (Phoma). 123. perexiguum (Gleeosporium). 713. perforans (Ascochyta). 406. perforans (Phoma). 88. pericarpii (Spheropsis), 299, Perielymeni (Ascochyta). 388. Perielymeni (Leptothyrium). 626. periglandis (Diplodina). 413. peritheciatum (Melanconium). 757. perpusilla (Diplodia). 365. perpusillum (Leptothyrium). 631. persien (Rhabdospora). 581. Persico (Cornularia). 599. Pers'ca (Cytospora). 256. Persiem (Diplodia). 341. Persiele (Phoma) 74. Persica (Phyllosticta). 8. persicaria (Phoma). 74. persicina (Phoma). 74. persicina (Septomyxa). 766. personata (Cytospora). 267. personata (Rabenhorstia). 244. perularum (Septoria). 487. peruviana (Hendersonia). [31. pestalozzioldes (Coryneum): 700. Petersii (Apospheria). 176. petiolaris (Diplodia). 364. petiolata (Phoma). 113. petiolicola (Excipula). 667. peticlina (Phoma). 113. petiotina (Rhabdospora). 593. petiologum (Diplodia). 359. petiologum (Leptothyrium). 629. peticlorum (Phoma). 103. petiolorum (Vermieularia). Petroselini (Septoria). 530.

Petuniæ (Ascochyta). 401. Petunice (Phyllosticta). 47. Peylii (Cytospora). 277. pezizoideum (Didymosporium). pezizoideum (Pleococcum), 679. perizoides (Fusarium). 707. pezizoides (Pestalozzia). 789. Pezizula (Dinemasporium). 685. phacidiella (Phoma) ' 106. Phacelia (Camarosporium). 468. phacidioides (Ceuthospora). 277. phacidioides (Coniothyrium). 310. phacidioides (Gleeosporium). 701. phacidioides (Pestalozzia). 801. phacidioides (Phoma). 106. phacidioides (Septoria). 499. phacidioides (Sporonema). 677. Phogopteridis (Gloeosporium). 721. pheosorum (Glæosporium). 715. phaeotrichum (Amerosporium). 681. Pharbitis (Phyllosticta). 50. Phascoli (Cylindrosporium). 738. Phaseoli (Phoma). 120, phaseolina (Phyllosticta). 41. Phaseolorum (Ascochyta). 398. Phaseolorum (Phyllosticta). 41. Phlogis (Phoma). 129. Phlogis (Septoria). 533. Phlomidis (Phoma). 139. Philadelphi (Ascochyta). 386. Phillipsiana (Phona). 98. Phillyrew (Deparea). 22. Phillyreae (Phyllosticta). 23. Phillyreae (Septoria). 496. phillyricola (Phyllosticta). 23. phillyrina (Phyllosticta). 23. phlyelannides (Septoria). 591. Phoenicis (Pestalozzia). 796. phomatella (Phlyctæma). 594. phomatella (Spheropsis). 208. phomatoides (Rhabdospora). 579. phomiformis (Phyllosticta), 35. phomoides (Ascochyta). 400. phomoides (Glaeosporium). 718. Phormii (Phoma). 160. Photinia (Diplodia). 362. Photinia (Pestalozzia) 787. Photiniae (Phyllosticta). 7. Photinia (Septoria). 489. photinica (Phyllosticta). 6. photinicola (Phyllosticta). 7. Phoradendri (Diplodia). 356.

Phragmitis (Hendersonia). 437. Phragmitis (Leptostroma) Phragmitis (Septoria). 564. phyllachoroides (Ascochyta). phyllodii (Diplodia), 358. phyllodiorum (Diplodia). 358. phyllogena (Cytospora). 275. phyllogeneta (Phoma). 117 Phyllostictæ (Diplodia). 364. phyllostictea (Phoma). 130. phyllostictoidea (Vermicularia). phyllostictoides (Phoma). 147. phyllostictoides (Septoria). 49). Physaleos (Phyliosticta). 48. physalina (Ascochyta). 401. Phyteumatis (Septoria). 544. Phyteumatum (Septoria). 541. Phytolaccie (Phoma). 139. Phytolaccie (Phyllosticta). 57. picastrum (Camarosporium). 465. picea (Phoma). 140. Piceæ (Phoma). 101. piceana (Phoma). 74. piccata (Phoma). 107. piccum (Leptostroma) 640. pictum (Leptothyrium), 626. Pilen (Septoria). 557. piliferum (Sphieromema). 192. pinastrella (Phoma). 101. Pinastri (Cytospora). 275. Pinastri (Dothiorella). 241. Pinastri (Leptostroma). 611. Pinastri (Micropera). 606. P'nastri (Phoma). 101. Pinastri (Phoma). 150. Pinastri (Spheropsis). 300. pinea (Aposphæria). 169. pinea (Diplodia). 359. pinca (Rhabdospora) 585. Pingræ (Septoria). 546. Pini (Camarosporium). 465. Pini (Cytospora). 270. Pini (Cytospora). 269. Pini (Fusicoccum). 243. Pini (Hendersonia). 426. Pini (Leptothyrium), 627. Pini (Melanconium). 756. Pini (Phoma). 101. Pini (Phoma), 73. Pini (Rhabdospora). 585. Pini (Septoria). 506. pinicola (Cytospora). 270.

pinicola (Phoma). 100, pinicola (Stilbospora). 773. pinnarum (Diplodia). 371. Pinorum (Leptostroma). 641. p'ptarthra (Hendersenia). 450. Pipulæ (Septoria). 499. Piri (Asteroma). 206. Piri (Hendersonia). 419. Piri (Myxosporium). 722. Piri (Septoria). 487. piricola (Ascochyta). 386. piricola (Cytospora). 276. piricola (Hendersonia) 428, piricola (Phyllosticta), 7. piricola (Septoria). 487. piriforme (Melanconium). 755. piriforme (Sphæronæma). 191. piriforme (Steganosporium). 803. piriformis (Diplodia). 341. piriformis (Marsonia). 767. pirina (Phyllostieta). 7. Pirolæ (Depazea). 64. Pirorum (Phyllosticta). 7. Pisi (Ascochyta). 397. Pisi (Phyllosticta). 43. Pisi (Septoria). 509. pisicola (Ascochyta). 397. pisiformis (Cytosporella). 251. Pistaciae (Septoria). 483. pistillare (Sphæronæma). 194. pithya (Doth orella). 241. pithya (Phoma) 73. pithyophila (Cytospora). 270. pithyophila (Dothiorella). 238, pithyophila (Phoma). 101. pithyophila (Rhabdospora), 585, pithyum (Camaresporium). 467. pithyum (Fusicoccum). 248. pithyum (Sphæronæma). 192. Pittospori Diplodia). 348. Pittospori (Phoma). 73. Placenta (Aschersonia). 620. Placenta (Dothiorella). 239. plagiochata (Pestalozzia). 799. planiuscula (Phoma). - 99. plantaginea (Septoria). 554. Plantaginis (Ascochyta). 403. Plantaginis (Phyllosticta). 53. Plantaginis (Septoria), 554. Platani (Coniothyium). 313. Platani (Cytospora). 267. Platani (Diplodia), 352.

Platani (Discula). 674.
Platani (Gleosporium). 711.
Platani (Hymenula). 711.
Platani (Phyllosticta). 32.
Platani (Splueropsis). 299.
Platani (Steganosporium). 805.
Platani (Steganosporium, Hendersonia).

platanifolia (Septoria). 500. Platanoidis (Phyllosticta). 13. platense (Dinemasporium). 686. platensis (Phoma). 154. platensis (Septoria). 512. platypus (Hendersonia). 420. p'atyspora (Discula). 674. pleosporoides (Rhabdospora). 588. pleurochæta (Discosia). 655. pleurospora (Dendrophoma), 178. plumbea (Næmospora). 748. Pow (Leptostroma), 643. Pose (Septoria). 562. Podagrariæ (Phoma), 169, Podagraria (Sentoria), 529. Podisomatis (Discosia). 657. Pedocarpi (Septoria). 507. Podophylli (Phyllosticta). 55. podophylla (Septoria). 526. Poinsettite (Phoma). 89. polaris (Septoria). 523. Polemonii (Septoria). 536. polita (Rhabdospora). 589. polychæta (Pestalozzia). 785. polycystis (Hendersonia), 411. Polygalæ (Septoria). b21. polygonatea (Phoma), 161. Polygonati (Asteroma). 214. Polygonati (Phoma), 161. Polygonati (Vermicularia), 234. Polygonatum (Leptostroma). 644. Polygoni (Hendersonia). 434. polygonicola (Depazea). 63. polygonina (Septoria), 554, Polygoni-virginici (Vermicularia). 229. Polygonorum (Phyllosticta). 54. Polygonorum (Septoria). 555. polygramma (Phoma). 130 polymorphum (Camarosporium). 461. polymorphum (Sphæronæma). 185. polynomatoides (Amerosporium), 680; polytricha (Vermieularia), 226. pomarii (Asteroma). 213. Pemi (Aposphæria). 177.

Pomi (Leptothyrium). 632. Pomi (Microsticta). 693, pomorum (Phoma), 152. populea (Dothichiza). 672. populea (Dothiorella). 237. populea (Phyllosticta). 33, populicola (Phoma). 97. populina (Ascochyta). 394. populina (Diplodia). 353. Populi (Asteroma). 208. Populi (Cryptosp rium). 742. Populi (Leptothyrium), 627. Populi (Marsonia). 767. Populi (Septoria), 502. Populi (phæronæma). 190. Populi (Stagonospora), 448. Populi (Trullula), 733. Populi-alba (Gloeosporium), 712. Populi-tremuke (Myxosporium), 724, populina (Dendrophoma), 181. populina (Dothichiza). 672. populina (Næmospora). 747. populina (Phyllosticta), 33. populinum (Coniothyrium), 312, populinum (Melanconium). 752. populinum (Myxosporium). 724. populnea (Dothiorella). 237. Populorum (Asteroma). 208. Populorum (Phyllosticta). 33. Populorum (Rhabdospora), 584. Portulace (Phyllosticta), 52. Potentillæ (Labrella). 648. Potentille (Leptostroma). 647. Potentilla (Marsonia). 770. Potentillarum (Ascochyta). 398. Potentillarum (Septoria), 770. potentillica (Phyllosticta), 40. potentillica (Septoria). 510. Potonicana (Phoma). 75. Preussii (Diplodia). 339, Preussii (Melaneonium). 753. Preussii (Phoma). 125. Preussii (Phoma). 142. Preussii (Rhabdospora). 580. Preussii (Spherontema), 197. Prillieuxiana (Aposphæria), 174. primulicola (Phyllosticta), 56. princeps (Rhabdospora). 584. Prismatocarpi (Septoria). 514. Pritchardie (Phoma). 157. proboscidea (Mastomyces). 456. procumbens (Sphæronæma), 190.

profusa (Diplodia). 336. profusa (Phyllosticta). 44. profusum (Didymosporium). 763. projecta (Phoma). 126. prominula (Stagonospora). 446. propinguum (Camarosporium). 464. propullulans (Sphæropsis). 294. protracta (Phoma). 91. protracta (Vermicularia). 235. protüberans (Leptothyrium). 635. protuberans (Phoma). 112. provinciale (Sporonema). 678. pruinosa (Dendrophoma). 179. pruinosa (Næmospora). 748. pruinosum (Sphæronæma). 188. Prunellæ (Asteroma). 210. Pruni (Diplodia). 339. prunicola (Phoma). 107. prunicola (Phyllosticta). 4. prunicolum (Myxosporium). 722. Pruni-Mahaleb (Septoria). 488. Pruni (Optoria). 489. Pseudacaciæ (Phoma). 69. Pseudo-capsici (Phyllosticta). 49. Pseudo-diplodia (Diplodia). 341. Pseudo-phoma (Gleosporium). 704. Pseudo-phoma (Phlyctena). 595. Pseudo-platani (Cytospora). 258. Pseudo-platani (Phyllosticta). 13. Pseudo-platani (Septoria). 478. psilostega (Septoria). 543. Psoraleie (Phoma). 103. Ptarmice (Leptothyrium). 635. Ptarmicæ (Septoria). 548. pteridina (Leptostromella). 660. Pteridis (Glosporium). 7:1. Pteridis (Leptostroma). 645. Pteridis (Pestalozzia). 796. Pteridis (Sphæroniema). 198. Pterocarpi (Diplodia). 335. Pterocarya (Phyllosticta). 31. pterophila (Phoma). 153. pterophila (Septoria). 577. Pubentis (Hendersonia). 422. Puiggarii (Ascochyta). 391. pulchella (Hendersonia). 430. pulchella (Hendersonia). 462. pulchella (Phoma). 86. pulchella (Septoria). 494. pulchrum (Cylindrosporium). 739. pulla (Phoma). 87. Pulmonaria (Phyllosticta). 56.

Pulmonariæ (Septoria). 537. pulveraceum (Cylindrosporium). 739. pulvinatum (Coryneum). 777. Pulviscula (Aposphæria). 175. Pulvis-pyrius (Dendrophoma). 181. pumila (Phoma). 107. punctans (Vermicularia). 234. punctata (Melasmia). 638. punctata (Phoma). 135, punctiforme (Asteroma). 203. punctiforme (Amerosporium). 681. punctiforme (Cryptosporium). punctiforme (Glossporium). 720. punctiforme (Leptostroma). 642. punctiforme (Leptothyrium). 632. punctiforme (Melanconium). 751. punctiformis (Phoma). 145. punctiformis (Vermicularia). 231. punctipetiola (Diplodia). 363. punctoidea (Septoria), 566. punctulata (Phoma). 120. punctulatum (Leptothyrium). 635. Punctum (Coniothyrium). 309. Punctum (Labrella). 649. Punctum (Sphæropsis). 297. pungens (Phoma), 88. punica (Cytospora). 256. punica (Phyllosticta); 7. Punice (Asteroma). 206. Punicæ (Diplodia). 342. punicea (Libertella) 745. pura (Hendersonia). 435. purpurcola (Septoria). 542. pusilla (Phoma). 77. pustulata (Cytospora). 267. pustulata (Phoma), 91. pustulata (Rhabdospora). 586. pustulatum (Coryneum). 777. pustulosa (Diplodia). 330. pustulosa (Phyllosticta). 15. Putaminum (Aposphæria). 177. putator (Phoma). 97. putredinis (Collacystis). 616, putredinis (Melanconium). 756. Pyracanthae (Asteroma). 206. pyrenoides (Glaeosporium). 717, pyrenophora (Botryodiplodia). 380. pyrenophora (Dothiorella). 238.

quadriseptata (Stilhospora). 772. Quamoclit (Phyllosticta). 50. quaternatum (Camarosporium). 467.

quercella (Diplodiella). 376. quercella (Phoma). 93. Querceti (Septoria). 505. quercicola (Septoria). 505. quercifolia (Chetophoma). 199. quercina (Cytospora). 264. quereina (Cytospora). 265. quereina (Dichena). 680. quercina (Diplodia). 354. quereina (Discula). 675. quercina (Dothiorella). 240. quercina (Hendersonia). 441. quercina (Phoma). 96. quereina (Schizothyrella). 690. quercina (Septoria). 504. Quercuum (Ascochyta). 393. quercinum (Coniothyrium). 312. quercinum (Fusicoccum). 248. quereinum (Glæosporium). 714. quercinum (Leptothyrium). 628. quereinum (Phragmotrichum). 807. Quereus (Ascochyta). 393. Quercus (Camarosporium). 464. Quercus (Cytospora). 264. Quereus (Diplodia). 354. Quereus (Phoma). 108. Quereus (Phyllostieta). 34. Quereus-ilieis (Phyllosticta). 35. Quercus-rubræ (Phyllosticta). 35. Quereus (Psilospora). 680. Quereus (Septoria). 504. quernea (Phyllosticta) 35. queruum (Gleesporium) 714. quevillensis (Septoria). 512.

Rabenhorstii (Plenodomus). 185. rabici (Zythia). 397. Radula (Diplodia). 371. Radula (Phoma). 94. Radula (Rhynchophoma). 414. radiata (Phoma). 145. radiatum (Asteroma). 201. radicina (Diplodia). 350. radiciperda (Diplodia). 341. radiosum (Asteroma). 408. Raffsii (Phoma). 113. Ralfsii (Septoria). 558. rameale (Sporonema). 678. ramealis (l'homa). 71. ramcalis (Pestalozzia). 801. ramealis (Rhabdospora). 580. ramularum (Hymenida). 716.

ramulorum (Melanconium). 754. Ranunculacearum (Septoria). 523. Ranunculi (Cylindrosporium). 737. Ranunculi (Phyllostieta). 37. Ranunculi (Septoria). 523, ramulicola (Diplodia). 333. Ranunculorum (Phyllosticia). 37. raripila (Catomella). 322. rarissima (Septoria). 556, Raui (Phoma). 143. Raui (Stagonospora). 456. Ravenelii (Botryodiplodia). 378. Ravenehi (Diplodia). 363. Ravenelii (Septoria). 489. recta (Septoria). 507. rectispora (Vermicularia). 224. recurvispora (Excipulina). 689. relicina (Vermicularia). 234. religiosa (Vermicularia). 225. Renouana (Phyllosticta). 60. resecuns (Spheropsis). 82. resurgens (Diplodia). 335. reticulatum (Glæ08porium). 719. revellens (Phoma). 99, rhabdosporum (Cylindrosporium). 739. rhamnella (Septoria). 481. Rhamni (Dichomera). 471. Rhamni (Phyllosticta). 14. Rhamni (Septoria). 481. Rhamni-cathartice (Septoria). 482. Rhamni (Sphæronæma). 194. rhamnicola (Hendersonia). 421. rhamnicola (Phoma). 71. rhamuicola (Phyllosticta). 14. rhamnigena (Phyllosticta). 14. rhamnigena (Septoria). 481. Rhapontici (Septoria). 555. Rheea (Diplodia). 369. Rheea (Phoma). 140. rhenana (Phyrenochæta). 220. Rhinauthi (Sphæronæma, Sphæria). 155. Rhinanthi (Zythia). 615. Rhynchosporæ (Septoria). 569. Rhynchos'a (Ascochyta). 398. rhodocarpa (Diplodia). 362. Rhododendri (Aposphæria). 171. Rhododendri (Coryneum). 780. Rhododendri (Dendrophoma). 178. Rhododendri (Diplodia). 363, Rhododendri (Hendersonia). 429. Rhododendri (Phyllosticta): -23. Rhododendri (Septoria). 494.

rhodophæum (Dinemasporium). 683. rhodophila (Cytospora), 253. rhodophila (Phoma). 98. rhodosperma (Phoma). 142. Rhoidis (Nemaspora), 723. rhoina (Cytospora), 257. rhoina (Diplodia). 335. rhoina (Hainesia). 699. rhoina (Phyllosticta). 17. rhoina (Septoria). 483. rhoinum (Asteroma). 207. rhoinum (Camarosporium). 464. rhomum (Leptostroma). 640. Rhois (Diplodia). 334. Rhois (Gloeosporium). 704. Rhois (Myxosporium). 723. Rhois (Phoma). 85. Rhois (Phyllosticta), 17. Rhois (Septoria). 483. Rhois (Sphæronæma). 189. ribesia (Phoma), 88. ribicola (Phyllostieta). 17. ribicola (Rhabdospora). 579. Ribis (Cryptosporium). 743. Ribis (Cytospora). 273. Ribis (Diplodia). 244. Ribis (Dothiorella). 236. Ribis (Fuckelia). 244. Ribis (Gleesporium). 706. Ribis (Haplosporella). 324. Ribis (Septoria). 491. Ricini (Diplodia). 369. Ricini (Phoma). 141. Riessii (Gloeosporium), 715. rigida (Phoma). 104. rimincola (Phoma). 93. rimiseda (Phoma). 78. rimosa (Hendersonia). 438. rimosa (Phoma). 165. riparia (Hendersonia): 436. riparia (Septoria). 567. Robergeana (Phoma). 89. Robergei (Glæosporium). 712. Robinize (Ascochyta), 385, Robergii (Asteroma). 210. Robiniæ (Camarosporium). 459. Robiniæ (Cytospora). 271. Robiniæ (Dinemasporium). 685. Robiniæ (Phoma). 69. Robiniæ (Phyllosticta). 10. Robiniæ (Septoria), 484. Robiniæ (Sphæronæma). 194.

Rosacearum (Labrelia). 649. Rose (Actinonema). 408. Rosce (Diplodia). 338. Rosæ (Trullula). 733. Rosce (Libertella), 745. Rosæ (Myxosporium), 723. Rosæ (Pestalozzia). - 786. Rosæ (Phoma). 76. Rose (Pyllosticta). 9. Rosce (Scimatosporium), 775. Rose (Septoria). 495. Rose-arvensis (Septoria). 486. Rosarum (Camarosporium). - 462. Rosarum (Coniothyrium). 307. Rosarum (Cytospora). 253. Rosarum (Diplodia), 338. Rosarum (Leptothyrium). 628. Rosarum (Phoma). 77. Rosarum (Septoria). 486. Rosarum (Sphæropsis). 294. roscola (Micropera). 606. rosicola (Ascochyta). 386. rosicola (Sporocadus). 439. rosicila (Spirocadus). 775. Rosmarini (Conturca), 442. Rosmarini (Phoma). 92. rostrata (Hendersonia). 426. rostrata (Cytosporina). 601. rostrata (Pestalozzia). 788. r strata (Sphærocista). 197. rostratum (Sphæronæma). 195. Roumeguerii (Camarosporium). 469. Ronmeguerii (Diplodia). 340. Roumegucrii (Phoma). 103. Roumeguerii (Phyllosticta). 16. rubellum (Coniothyrium). 315. rubescens (Cytospora). 253. Rubi (Asteroma), 202. Rubi (Blennoria), 730. Rubi (Coryneum). 775. Rubi (Cytospora). 252. Rubi (Diplodia), 339. Rubi (Hainesia). 699. Rubi (Hendersonia). 424. Rubi (Leptothyrium). 629. Rubi (Leptostroma). 640. Rubi (Septoria). 486. Rubi (Spor :cadus). 339. Rubiacearum (Actinonema). 409 Rubiæ (Phoma). 137. rubicola (Diplodia). 339. rubicola (Phyllosticta). 8.

rubicola (Sphæropsis). 294. rubicolum (Camarosporium). 462. rubida (Micropera). 604. Ruborum (Phoma). 76. Ruborum (Phyllosticta). 8. rubra (Polystigmina). 622. rudis (Diplodia), 337, rudis (Phoma). 68. rudis (Rabenhorstia). 243. rufa (Aschersonia). 619. rufa (Næmospora). 748. rufa (Sphæronæmella). 618. rufo-maculans (Ascochyta). 395. rugosa (Discula). 675. rugosum f. Fagi (Hysterium). 680. rugulosa (Discosia). 655. rumicincola (Excipula). 669. rupestris (Hendersonia). 433. Rusci (Blennoria). 731. Rusci (Diplodia). 370. Rusci (Leptostroma). 647. Rusci (Phoma). 162. Rusci (Sphæropsis). 304. ruscicola (Hendersonia). 436. ruscicola (Phyllostieta). 58. Russellii (Myxosporium). 722. rutæcola (Diplodia). 367. ruthenica (Weinmannodora). 325. Ryckholtii (Phoma). 70.

Sabal (Chætophoma). 201. Sabaleos (Hendersonia). 434. Sabaleos (Phoma). 157. Saccardiana (Cytospora). 270. Saccardiana (Hendersonia). 431. Saccardiana (Septoria). 482. Saccardiana (Sphæropsis). 202. Saccardoi (Pestalozzia). 797. Saccardoi (Phyllosticta). 23. Sacchari (Phoma). 166. Sagittariæ (Depazea, Phyllosticta). 65. salicella (Cytospora). 260. salicella (Diplodia). 361. salicella (Rhabdospora). 585. salicellum (Myxosporium). 724. salicicola (Septoria), 502. salicina (Dichomera). '471. salicina (Hendersonia). 425. salicina (Phoma). 97. salicina (Septoria). 502. salicinum (Camarosporium). 465. salicinum (Coryneum). 777.

salicinum (Myxosporium). 724. salicinum (Septoglæum). 802. Salicis (Asteroma). 208. Salicis (Cytospora). 261. Salicis (Diplodina). 411. Salicis (Gleosporium). 711. Salicis (Phoma). 97. Salicis (Septoria). 502. Salliæ (Septoria). 478. salsa (Phoma). 139. Salviæ (Septoria). 540. samaricola (Phoma). 153, samararum (Phoma). 153. Samararum (Sphæropsis). 153. Sambac (Septoria). 494. sembucella (Phoma). 71. Sambuci (Ascochyta). 387. Sambuci (Dendrophoma). 178. Sambuci (Hendersonia). 422. Sambuci (Phyllosticta). 19. Sambuci (Sacidium). 651, Sambuci (Sphæropsis). 297. sambucicola (Phyllosticta). 19. sambucina (Diplodia), 345. sambucina (Phoma). 71. sambucina (Septoría). 492. sambucina (Sphæropsis). 297. Sanguisorbæ (Glæosporium). 706. sanguinea (Phyllosticta). 6. sanguineum (Melanconium). 754. Sapii (Sphæropsis). 301. sapinea (Diplodia). 356. Saponariæ (Ascochyta). 398. Saponariæ (Coniothyrium). 316. Saponariæ (Phyllosticta). 43. Saponariæ (Septoria). 516. sarmenticia (Ascochyta). 387. sarmentella (Phoma). 140. sarmenticia (Phoma). 136. sarmenticia (Septoria). 574. sarmenticium (Camarosporium) sarmenticium (Glœosporium). 716. sarmenticola (Sphæropsis). 301. sarmentorum (Diplodia). 365. sarmentorum (Hendersonia). 420. ' Sarothamni (Coniothyrium). 308. Sarothamni (Cytospora). 272. Sarothamni (Diplodia): 337. Sarothamni (Phoma). 68. Sarraceniæ (Peckia). 218. Sassafras (Melanconium). 752. Sassafras (Phyllosticta). 18.

Sassafras (Sphæropsis). 296. Saubinetii (Dichomera), 471, Saussureæ (Septoria). 547. Saxifragæ (Septoria). 527. Saxifragarum (Phoma). 145. scabella (Phoma). 84. Scabiosæ (Ascochyta), 400. Scabiosæ (Ascochyta). 553. scabiosicola (Sentoria), 553, scabra (Diplodia), 355. scabra (Phoma). 94. scabrosa (Botryodiplodia). 378. scapisedum (Conjothyrium), 316. scandens (Ascochyta), 395. scandentium (Vermicularia), 230. Scandicis (Rhabdospora). 589. Scentri (Phoma), 129, Sceptri (Rhabdospora), 590. Scheidweileri (Cytosporella). 251. Scheidweileri (Diplodia). 330. Scheidweileri (Phoma), 92. Schelliana (Ascochyta), 401. Schelliana (Septoria). 532. Schini (Phyllosticta). 27. Schizoderma (Hypodermium). 729. schizothecioides (Aposphæria), 177. Scheenoprasi (Vermicularia). 233. Schulzeri (Fusicoccum). 247. Schweinfurthianum (Glosporium), 703. Schweinitzii (Cytospora). 261. Scillæ (Septoria), 571. Scirpi (Septoria), 567. scirpicola (Phyllosticta). 61. scirpinum (Leptostroma). 644. Scirpoidis (Septoria), 568 Scleranthi (Septoria), 518. Scolopendrii (Septoria), 576, Scolymi (Septoria). 550. Scopariæ (Septoria). 558. Scorodoniæ (Leptothyrium). 634. Scorodoniæ (Septoria). 540. Scortechinii (Actinothecium), 639, scripta (Sphæropsis). 242. scriptum (Leptostroma). 640. Scrophularize (Coniothyrium). 316. Scrophulariæ (Cylindrosporium). 739. Scrophulariæ (Phyllosticta). 46. Scrophulariæ (Septoria). 534. scrophularinea (Phyllosticta). 46. scutatum (Coniothyrium). 312. Scutellariæ (Septoria). 539. scutiforme (Leptothyrium). 635.

Secalis (Diplodia), 373. Secalis (Melanconium), 759. Sedi (Placosphæria). 245. Sedi (Septoria), 527. sedicola (Diplodia). 367. seiridioides (Pestalozzia), 799, semiimmersa (Phoma), 78. seminalis (Phoma), 149. seminalis (Septoria). 478. seminicola (Pyrenochæta). 220. seminellitum (Spheronema), 191, Senecionis (Ascochyta), 400. Senecionis (Sentoria), 549, Senecionis (Stagonospora), 447. sepincola (Phoma), 77. sepium (Septoria), 537. senosita (Phoma), 68. septorioides (Leptostromella). 660. septorioides (Phlyctæna) 594. sepulta (Aposphæria), 172. seriata (Aposphæria). 175. seriata (Diplodia). 339. scriata (Phoma). 90. seriata (Sphæropsis). 296. seriatum (Sphærographium). serotina (Phyllosticta), 4. Scrratulæ (Septoria), 551. sessilis (Hendersonia), 436. sessilis (Robillarda). 408. Sibbaldiæ (Labrella). 648. sibirica (Septoria). 491. sibirica (Stagonospora). 448, sibiricum (Glocosporium). 712. sibiricum (Leptothyrium). 630. sicula (Septoria). 478. Sidæ (Diplodia), 366, Sii (Septoria), 529. Silenes (Septoria). 516. silenicola (Septoria). 516. siliquæ (Phoma). 153. siliquarum (Phoma). 153. Siliquastri (Ascochyta). 385. Siliquastri (Cytosporina). 601. Siliquastri (Diplodia). 336. Siliquastri (Pestalozzia), 786. Siliquastri (Phoma). 68. Siliquastri (Phyllosticta). 9. Siliquastri (Septoria). 484. Siliquastrum (Phoma). 154. Silphii (Vermicularia). 229. silvatica (Phoma). 128. silvatica (Septoria). 563.

silvaticum (Coniothyrium). 316. silvestris (Septoria). 510. silvicola (Septoria). 522. Silybi (Septoria). 550. simillima (Septoria). 476. simplex (Septoria). 560. simulans (Phlyctæna). 595. Sinarum (Septoria). 517. Siphonis (Vermicularia). 231. Sisonis (Septoria). 530; Sisymbrii (Septoria). 520. smilacina (Discosia). 656. smilacina (Diplodia). 370. smilacina (Marsonia). 771: smilacicola (Depazea). 65. smilacina (Phoma). 160. smilacina (Septoria). 574. Smilacinæ (Septoria). 574. Smilacis (Coryneum). 780. Smilacis (Seridium). 783. Smilacis (Leptostroma). 644. Smilacis (Phlyctæna). 596. Smilacis (Stagonospora). 450. socia (Septoria). 549. socialis (Ascochyta). 405. sociata (Sphæropsis). 294. socium (Coniothyrium). 319. sojina (Septoria). 509. Solani (Haplosporella). 324. Solani (Hendersonia). 433. Solani (Phyllosticta), 49. Soldanellæ (Septoria). 532. Solidaginis (Rhabdospora). 591. Solidaginis (Septoria). 546, Solierii (Phoma). 161. Sonchi (Phyllosticta). 44. Sonchi (Septoria). 552. souchifolia (Septoria), 552. sonchina (Septoria), 552. Sophoræ (Diplodia). 335. Sophoræ (Phoma). 67. Sorbariæ (Phoma). 75. Sorbi (Diplodia). 342. Sorbi (Dothichiza). 671. Sorbi (Micropera). 605. Sorbi (Phoma). 107. Sorbi (Phyllosticta). 8. Sorbi-hybridæ (Septoria). 488. Sorbi (sphæronæma). 186. sorbina (Dothiorella). 237. sordida (Phoma). 99. sordida (Phoma). 144.

sordidula (Septoria). 548. Sorghi (Ascochyta). 406. Sorghi (Depazea, Phyllosticta). 65. sorghina (Ascoshyta). 406. sorghina (Phyllosticta). 61. Sparganii (Hendersonia). 435. Spargan'i (Septoria). 569. Sparganii (Stagonospora). 451. sparsa (Diplodia). 368. sparsa (Septoria). 511. sparsum (Hypodermium). 729. Spartii (Phoma). 67. Spartii (Trullula). 732. Specularize (Septoria). 544. specularina (Septoria). 544. Spegazziniana (Diplodia). 338. Spegazzinianum (Sacidium). 650. Spegazzinii (Septoria). 531. speirea (Deparea). 693. speireum (Perisporium). 693. Spergulæ (Septoria). 518. sphærelloides (Glæssporium). 709. sphæricum (Sphæronæma). 195. spheroboloidea (Lichenopsis). 443. sphærocephala (Cytospora). 257. sphærioides (Botryodiplodia). 379. sphæroidea (Cornularia). 599. sphærpides (Excipula). 667. sphæroides (Leptostroma). 646. sphæroideum (Melanconium). 755. sphærosperma (Cytosporella). 252. sphærosperma (Dichomera). 472. spherospermum (Coniothyrium). 308. sphærosporum (Cytosporium). 470. sphærospermum (Melanconium). 759. 760. sphærospora (Phoma). 94. Spherula (Cytospora). 277. Spina (Sphæronæma). 188. Spinaciæ (Septoria). 555. Spinella (Sphæronæma). 191. spiniforme (Sphæronæma). 188. Spirææ (Diplodia). 342. Spirrese (Excipula). 666. Spirææ (Leptostroma). 646. Spirææ (Phoma). 132. spiræina (Diplodia). 342. Splitgerberi (Phyrenotrichum). spurca (Diplodia). 338: spurium (Sphæronæma). 186. squarrosum (Sphærographium). Squieriæ (Sphæropsis). 302. Stachydis (Septoria). 539.

Stanhopere (Pyrenochieta). 219. Stapelia (Phoma). 139. Staphylere (Diplodia). 333. Staphyleæ (Septoria). 481. Stuphyleæ (Stilbospora). 773. Staphyleæ (Vermicularia). 222. Staphysagriæ (Septoria). 525. stellare (Prosthemium). 444. Stellariæ (Excipula). 669. Stellariæ (Leptostroma). 647. Stellariæ (Placosphæria). 245. Stellariæ (Septoria). 518, Stellariæ-nemorosæ (Septoria). 518. stellata (Pestalozzia). 787. Stellatarum (Placosphæria). 245., stellatum (Spherographium). 598. stelligera (Phoma). 168. stellulata (Cytospora). 259. stellulata (Cytosporina). 602. stemmatea (Septoria). 493. stenospora (Cytospora). 259. stenospora (Cystotricha). 414., stenospora (Diplodina). 411. stenostoma (Aposphæria). 172. Stephensii (Camarosporium). 469. Stevensoni (Chatomella). 322. Sterculiæ (Phyllosticta). 28. stercoraria (Phoma). 169. Stevensonii (Pestalozzia). 792. stictica (Corularia), 94. stictica (Pestalozzia): 793. stictica (Phoma). 89. stictina (Phoma). 94. Stigma (Phoma). 131. Stigma (Septoria). 494. Stigmaphylli (Phyllosticta). 36. stigmatella (Snhæria). 653. stigmea (Phoma). 103. stigmospora (Aposphæria). 172. stilbosporoides (Thyrsidium): 762. stipatum (Leptostroma). 647. stipularis (Septoria), 510. Strelitziæ (Phoma). 162. striceforme (Hypoderma). 645. striæformis (Phoma). 131. Striola (Cystotricha). 414. Striola (Didymosporium). 763. striolata (Phoma). 157. strigosum (Dinemasporium). 683. Strobi (Excipula). 668. Strobi (Phoma). 101. strobilaria (Phoma). 150.

strobilicola (Pestalozzia). 792. strobiligena (Phoma). 150. strobilina (Discosia). 656. strobilina (Gerulajacta). 150. strobilina (Pleosporopsis). 693. strobilina (Sta;onospora). 450. strobilinum (Sporonema). 678. strobilinus (Sirococcus). 217. Stroma (Melanconium). 755. stromatica (Dichomera). 472. stromatica (Dothiorella). 237. stromaticum (Melanconium). 750. subcalva (Excipula). 666. subconfluens (Phoma). 124. subcorticale (Sphæronæma). 191. subcorticalis (Ceuthospora). 278. subcrustacea (Aposphæria). 177. subeffigurata (Vermicularia). 230. suberina (Aposphæria). 177. suberina (Diplodia). 354. subfenestratum (Camarosporium), 459. subglabra (Vermicularia). 228. subglobata (Diplodia), 357. subglobosa (Sphæropsis). 303. sublineatum (Coniothyrium). 308. sublineolata (Septoria). 570. subnervisequa (Phoma). 113. subpilosum (Sphæronema). 190. subolivaceum (Coniothyrium). 316. subordinaria (Phoma). 136. subradicale (Coniothyrium). 311. subseriata (Hendersonia). 437. subscriata (Stagonospora). 454. subsessilis (Pestalozziella). 737. subsolitaria (Diplodia). 334 subtecta (Diplodia). 331. subtectum (Leptothyrium). 636. subtile (Sphæronæma). 170. subtile (Sphæronæma). 196. subtilis (Aposphæria). 171. subtilis (Aposphæria). 177. subtilis (Diplodia). 351. subvelata (Phoma). 148. succedanea (Phoma). 110. succineum (Gloeosporium), succisicola (Septoria). 553. sulcigenum (Hypodermium). 729. sulphureum (Myxosporium). 725. Sumachi (Sphæropsis). 295. superflua (Phoma). 139. Surinamensis (Phoma). 163. suseganense (Camarosporium). 468.

sycina (Cytospora). 251. sycina (Diplodia). 350. syconophilum (Coniothyrium). 312. sycophila (Phyllosticta). 32. sycophilum (Melanconium). 754. Symploci (Hendersonia). 425. Symploci (Sacidium). 651. Symploci (Septoria), 494. Symphoricarpi (Diplodia). 345. Symphoricarpi (Phyllosticta). 19. syriaca (Diplodia). 330. Syriaca (Phyllosticta). 27. Syringce (Diplodia). 346. Syringæ (Dothiorella), 239, Syringæ (Cytospora). 272. Syringæ (Hendersonia). 421. Syringa (Phoma). 82, Syringæ (Phyllosticta). 22. Syringæ (Septoria). 495. Syringæ (Sphæropsis). 298. syringella (Phoma). 112. syringica (Phoma). 82. syringina (Phoma). 82.

Tabaci (Phyllosticta). 48. Tagana (Phoma). 143. tahitensis (Aschersonia). 619. Taleola (Libertella). 745. Taleola (Myxosporium). 726. tamaricaria (Phoma). 93. tamaricella (Phoma). 93. tamaricina (Diplodia). 343. tamaricina (Phoma). 93. Tamaricis (Diplodia). 343. Tamarisci (Phoma). 94. Tami (Phyllosticta). 58. Tami (Septoria). 574. Tanaceti (Septoria). 546. Tandilensis (Phoma). 77. taphrinum (Steganosporium). 805. tarda (Pyrenochæta). 221. Tatulæ (Phoma). 128. Taxi (Cytospora). 271. Taxi (Diplodia). 359. Taxi (Melanconium). 756. Taxi (Micropera). 606. Taxi (Phoma). 102. Tami (Phoma). 594. Tecomæ (Ascochyta). 395. Tecomæ (Coryneum). 775. Tecomæ (Diplodia). 347. Tecomæ (Diplodiella). 377.

Tecomie (Hendersonia). 425. Tecomæ (Phoma). 91. Tecomæ (Phyllosticta). 28. Tecomæ (Pestalozzia). 799. tecta (Diplodia). 363. tenella (Micropera). 606. tenella (Septoria). 562. tenuis (Diplodia). 343. tenuis (Leptostromella). 660 tenuispora (Discula). 677. tenuissima (Næmospora). 748. tenerrima (Ascochyta). 388. tenerrimum (Asteroma). 212. tephrospora (Sphæropsis). 202. tephrostoma (Diplodia). 350. teretiuscula (Ascochyta). 405. tertia (Phoma). 95. Teucrii (Phyllosticta), 49. Teucrii (Septoria). 541. Thalictri (Leptothyrium). 634. thalictrina (Phoma). 118. thecicola (Septoria). 577. thecicola (Vermicularia). 235. theicola (Hendersonia). 427. thelebola (Stilhospora). 771. Thermopsidis (Phyllosticta). 57. Thalictri (Phyllosticta). 37. Therryana (Dendrophoma). 180. Thomasiana (Marsonia). 768. Thümeniana (Rhabdospora). 587. Thümenii (Asteroma). 210. Thumenii (Entomosporium). 657. Thumenii (Glosporium). 721. Thümenii (Pestalozzia). 789. Thümenii (Septoria). 498. Thujæ (Cytospora). 271. Thujæ (Diplodia). 359. thujana (Diplodia). 356. thujana (Phoma). 102. thyoidea (Diplodia). 356. thyoides (Hendersonia). 430. Tibia (Septoria). 477. Tiliæ (Camarosporium). 462. Tiliæ (Cytospora). 274. Tiliæ (Dichomera). 472. Tiliæ (Diplodia). 330. Tiliæ (Glæosporium). 701. Tiliæ (Hendersonia). 424. Tiliæ (Phyllosticta). 27. Tiliæ (Rabenhorstia). 243. Tiliæ (Septoria). 476. tinetorium (Asteroma). 203.

tinea (Phoma). 87. tinea (Phyllosticta). 16. tineola (Phyllosticta). 16. tineum (Glæosporium). 707. Tini (Ascochyta). 387. Tini (Camarosporium), 466. Tini (Diplodia). 359. tithymalina (Cytospora). 276. tomipara (Rhabdospora). 581. Tormentillæ (Phyllosticta). 40. Tormentillæ (Septoria). 511. Torminalis (Hendersonia). 429. torrens (Phoma). 138. torulosa (Dothiorella). 240. torulosa (Pestalozzia). 795. Toxici (Phyllosticta). 17. Toxicodendri (Phyllosticta). 17. tortuosum (Glœosporium) 716. trabicola (Hendersonia). 441. Trabutiana (Phoma). 114. . trachelina (Rynchophoma). 414. trachelium (Spheronæma). 414. translucens (Cytospora). 261. tremellina (Hainesia). 699. Tremulæ (Ascochyta). 394. Tremulæ (Glæosporium). 712. Tremulæ (Myxosporium). 724. Tremulæ (Septoria). 503. tremulæcola (Depazea) 64. Triacanthi (Camarosporium). 460. Triacanthi (Phoma). 147. trichella (Vermicularia). 224. tricolor (Phoma). 144. trichophila (Rhabdospora). 587. Tricorynes ('phæropsis). 305. Trientalis (Depazea). 63. Trifolii (Asteroma). 212. Tr.folii (Gloeosporium). 705. Trifolii (Rhabdospora), 586. Trillii (Septoria). 573. trimera (Stagonospora). 452. triseptatum (Coryneum). 781. Tritici (Septoria). 561. Trollii (Ascochyta). 396. Trollii (Septoria). 522. Tropæoli (Phyllosticta). 39. tropica (Trullula). 732. truncata (Bloxamia). 735. truncata (Cytospora). 258. truncata (Diplodina). 411. truncata (Pestalozzia). 794. truncata (Vermicularia). 227.

truncatula (Marsonia). 768. truncatula (Pestalozzia), 794. truncatulum (Didymosporium). 794. truncatum (Gloeosporium). 708. truncatum (Melanconium). 751. truncatum (Sphæronæma), 193. tubercularioides (Gloeosporium). 706. tularostoma (Phoma). 109. Tulasnei (Dothiorella). 239. Tulasnei (Myxosporium). 723. Tulasnei (Pseudopatella). 688. Tulipiferæ (Phoma). 113. tumida (Cytospora). 265. tumidum (Myxosporium). 727. Tunicæ (Rhabdospora). 587. turbinata (Aschersonia). 619. turbinata (Trullula). 733. turbinatum (Thyrsidium). 762. turgida (Catinula). 673. turgida (Stagonospora). 447. Tussilaginis (Septoria). 545. Tweediana (Ascochyta). 390. Tweediana (Phyllosticta). 28. Typhæ (Excipula). 670. Typhæ (Hendersonia). 435. Typhæ (Melanconium). 759. Typharum (Phoma). 163. typhina (Phyllosticta). 60. Typhoidearum (Stagonospora). 451.

uberiformis (Sphæria, Topospora). 456. Ulicis (Diplodia). 337. uliginosa (Septoria). 520. Ulmariæ (Phyllosticta). 41. Ulmariæ (Sacidium). 650. Ulmariæ (Septor a). 511. ulmea (Hendersonia). 419. ulmella (Ascochyta). 393. ulmeum (Coniothyrium). 313. Ulmi (Asteroma). 209. Ulmi (Macrodiplodia). 374. Ulmi (Myxosporium). 723. Ulmi (Phleospora). 578. Ulmi (Phyllosticta). 33. Ulmi (Sphæropsis). 305. ulmicola (Aposphæria). 175. Ulmicola (Excipula). 667. ulmicola (Hendersonia). 440. ulmicola (Melasmia). 638. ulmicola (Phyllosticta). 33. ulmicola (Sphæria). 578. Umbellulariæ (Blennoria). 730.

Umbelliferarum (Bullaria). 766. Umbelliferarum (Septoria). 528. umbilicatum (Sacidium). 652. umbonata (Aposphæria). 176. umbonata (Ceuthospora). 280. umbonata (Rhabdospora) 579. umbonatum (Asteroma). 207. umbonatum (Corvneum). 777. umbrina (Cytospora). 259. umbrinellum (Glosporium). 714. unicornis (Pestalozzia). 798. uncinata (Vermicularia). 226. undulata (Dothiorella). 240. undulata (Sphæropsis). 325. Unedonis (Ascochyta). 391. Unedonis (Diplodia). 346. Unedonis (Septoria). 493. unica (Stagonospora). 449. unicolor (Pestalozzia).- 800. uredinicala (Diplodia). 410. L're lo (Stilbospura). 578. ureus (Septoria). 543. Urgineæ (Septoria). 571. uromycoides (Harknessia). 320. Urticæ (Leptothyrium). 634, Urticæ (Phoma). 140. Urticæ (Phyllosticta). 53. Urticæ (Septoria)., 557. ustulata (Phoma). 110. utriculosa (Stilbospora). 773. Uvariæ (Actinonema). 410. Uvariæ (Phyllosticta). 59. uyarum (Phoma). 149. uvicola (Pestalozzia). 789. uvicola (Phoma). 719. uvicola (Phoma). 149.

Vaccinii (Coryneum). 776.
vagans (Astoroma). 204.
vagans (Discosia). 654.
vagans (Microsticta). 693.
vagans (Hendersonia). 419.
vagans (Darluca) 410.
vagabunda (Phlyetena). 594.
vagabundum (Coniothyrium). 310.
vaginæ (Hendersonia). 438.
vaginæ (Phoma). 165.
vaginarum (Sphæropsis). 303.
valsispora (Deudrophoma). 179.
valsoidea (Sphæropsis). 299.
valsoidea (Botryodiplodia). 379.
valsoideaum (Glœosporium). 716.

variabile (Camarosporium). - 466. variabilis (Discula). 676, variegata (Septoria). 507. varium (Melanconium). 757. vegetans (Sacidium). 652. velata (Phoma). 92. venenosa (Phoma). 127. Veneta (Pestalozzia). 799. Venetum (Gloosporium). 706. Venetum (Sacidium). 650. ventricosa (Ascochyta). 394. ventricosa (Cytospora). 265. ventricosum (Sphæronæma). 194. venturioidea (Vermicularia). 228. venulosum (Asteroma). 214. Vepris (Phoma). 76. veratrinum (Cylindrosporium). 740. Verbasci (Ascochyta). 402. Verbasei (Phyllosticta), 47. verbascicola (Phoma), 129. verbascicola (Septoria). 533. verbascina (Ascochyta). 402. Verbenæ (Phyllostieta) 47. Verbenæ (Septoria). 537. verbenicola (Rhabdospora). 590. vermiforme (Sporidesmium). 782. vernicosum (Asteroma). 211. veronénsis (Sphæria). 352. Veronicæ (Septoria). 534. Veronicæ (Depazea, Phyllosticta). 63. Veronicæ (Phoma). 128. versicolor (Amphisperium). 692. versicolor (Glæosporium). 718. versicolor (Pestalozzia). 790, versicolor (Sacidium). 651. Versoniana (Zythia). 614. Veronicarum (Gloosporium). 710. verruciformis (Rhabdospora). 583. verrucosum (Sphæroneina). 193. vesicatoria (Phyllosticta). 34. vestita (Septoria). 559. vexata (Stagonospora). 455. vexatula (Stagonospora). 454. Viburni (Ascochyta). 387. Viburni (Cornularia). 600. Viburni (Hendersonia). 421. Viburni (Septoria). 493. Viciæ (Phyllosticta). 43. Viciæ (Septoria). 509. vicina (Ascochyta). 404. vicina (Phoma). 71. Villarsiæ (Septoria). 541.

Vincæ (Phoma). 145. Vincæ (Phyllosticta). 55. Vineæ (Sphæropsis). 302. Vincentiana (Phoma). 66. Vincetoxici (Phoma). 155: Vincetoxici (Phyllosticta). 52. Vincetoxici (Septoria). 542. vineæ (Diplodia). 332. vineæ (Septoria). 480. vinosa (Pyrenochæta). 220. Violæ (Ascochyta). 397. Violæ (Glæosporium). 701. Violæ (Marsonia). 770. Violæ (Phoma). 145. Violæ (Phyllosticta). 38. Violæ (Septoria). 518. violicola (Septoria). 519. Virgaureæ (Septoria). 546. Virgiliæ (Asteroma). 208. virginiana (Diplodia). 356. virgultorum (Leptostroma). 639. viridarii (Phoned). 89. viridans (Ephelis). 691. viride (Cryptosporium). 743. viride (Myxosporium). 727. viridi-tingens (Septoria). 572. viridispora (Phoma). 165. viridulum (Fusicoccum). 248. Visci (Camarosporium). 463. Visci (Phoma). 113. Visci (Septoria). 532. Visci (Sphæropsis), 295, viscosum (Melanconium). 750. Vitalbæ (Rhabdospora). 588. Viticellæ (Septoria). 525. viticina (Phyllosticta). 20. viticola (Diplodia), 332. viticola (Excipula). 667. viticola (Phoma). 79. viticola (Phoma). 110. viticola (Phyllosticta). 19. viticolum (Camarosporium). 463. viticolum (Sphæronæma). 188. Vitis (Cytospora). 256. Vitis (Discosia). 6.6. Vitis (Hendersonia). 423. Vitis-silvatica (Hendersonia). 423. Vitis (Phoma). 79, Vitis (Phyllostieta). 20. vixvisibilis (Phoma). 108. Vossii (Phylloslicta). 626. vulgaris (Diplodia). 370.

vulgaris (Hendersonia). 427. vulgaris (Phoma). 119. vulgaris (Phyllosticta). 18. vulgare (Leptothyrium). 633. Vulnerariæ (Ascochyta). 398. Volkameriæ (Phoma). 88. volubilis (Ascochyta). 404. Volutella (Colletotrichum). 736.

Yuccæ (Diplodia). 371. Yuccæ (Hendersonia). 435. Yuccæ (Phoma). 159. Yuccæ (Septoria). 572. Yuccæ-gloriosæ (Sphæria). 572. yuccogena (Septoria). 572.

Kalchbrenneri (Glœosporium). 708. Kalchbrenneri (Septoria). 515. Kalmiæ (Discula). 676. kalmiæcola (Septoria). 499. Karstenii (Stagonospora). 452. Keckii (Phoma). 90. Kennedyæ (Phyllosticta). 11. Kerriæ (Diplodia). 339. Kickxii (Stilbospora). 771. Kirghisorum (Rhabdospora). 585. Kœleriæ (Septoria). 560, Kælreuteriæ (Diplodia). 331. Kælreuteriæ (Phoma). 90. Kunzei (Coryneum). 778. Kunzei (Cytospora). 270. Kunzeanum (Fusicoccum). 250. Kurzeanum (Glæosporium). 705.

Xanthii (Septoria). 554.

xanthina (Phoma). 118.

xanthosperma (Cytospora). 262.

Xerophylli (Hendersonia). 435,

xylogrammicum (Endotrichum). 692.

xylomoides (Leptostroma). 644.

Xylostei (Camarosporium). 461.

Xylostei (Depazea). 626.

Xylostei (Phoma). 70.

Xylostei (Septoria). 492.

Wahlenbergii (Rhabdospora). 591. Waldsteinie (Septoria). 511. Wallrothii (Sporonema). 679. Wallrothii (Vermicularia). 232. Weigeliæ (Ascochyta). 388. Weigeliæ (Phomt). 70. Weigeliæ (Phyllosticta). 27. Westendorpii (Næmospora). 748. Westendorpii (Phoma). 145. Westendorpii (Phyllosticta). 26. Wigandiæ (Phyllostica). 57. Wilsoni (Septoria). 533. Wilsoni (Sphæropsis). 297. Winteri (Ascochyta). 391. Winteri (Septoria). 575. Wistariæ (Diplodia). 335. Wistariæ (Hendersonia). 420.

Wistariæ (Phoma). 102.

Wistariæ (Phyllosticta). 11. Woodsiana (Melophia). 659. Wyethiæ (Septoria). 547.

Zeæ (Asteroma). 215. Zece (Sphæria, Diplodia). 373. zeina (Ascochyta). 405. Zizaniæ (Leptostroma). 643. Zizyphi (Phyllosticta). 15. Zizyphi (Septoria). 483.

EMENDANDA

Nomina quædam specifica in suis generibus bis occurrentia, sequenti modo mutanda sunt,

pag. 20 Phyllosticta viticola

- " 21 (n. 104) 10:5
- 73 Phoma Pini
- " 110 Phoma viticola
- " 116 Phoma maculans
- " 142 Phoma Preussii
- " 166 Phoma linearis
- » 174 (n. 1047) sporulis ercetis
- " 177 Aposphæria subtilis
- 210 Asteroma Fuckelii
- 341 Diplodia Licalis

- lege Ph. vitea Sacc.
 - " : sporulis 10 = 5.
 - " Ph. Harknesii Sacc.
 - " Ph. vitea Sacc.
 - " Ph. Curtisii Sacc.
 - " Ph. Preussiana Sacc.
 - " Ph. lineata Sacc
 - » basidiis erectis
 - " Ap. Cordæ Sacc

 - " Ast. Fuckelianum Sacc.
 - D. Lilacis West.

